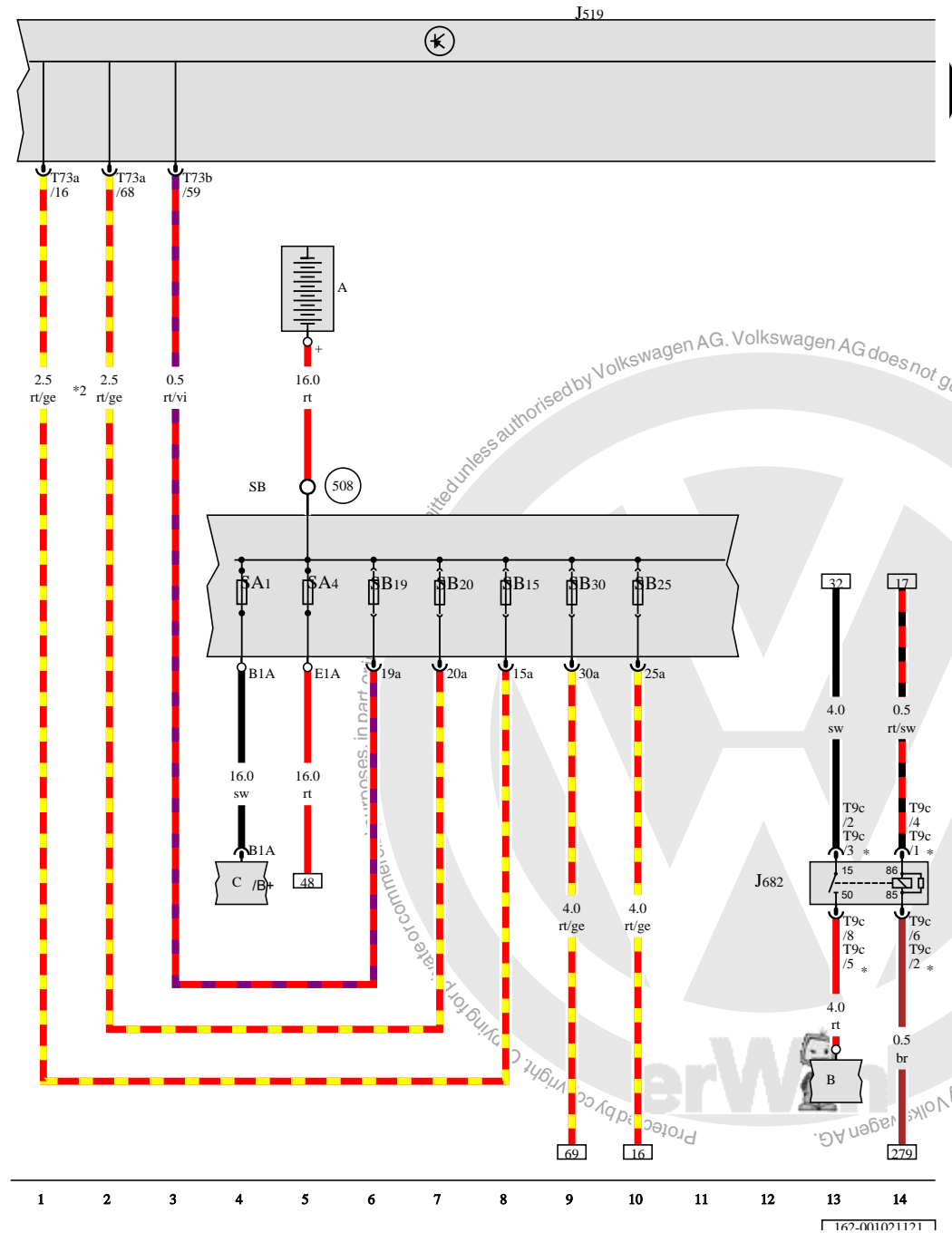


Standard Equipment , (AW0)

From April 2010





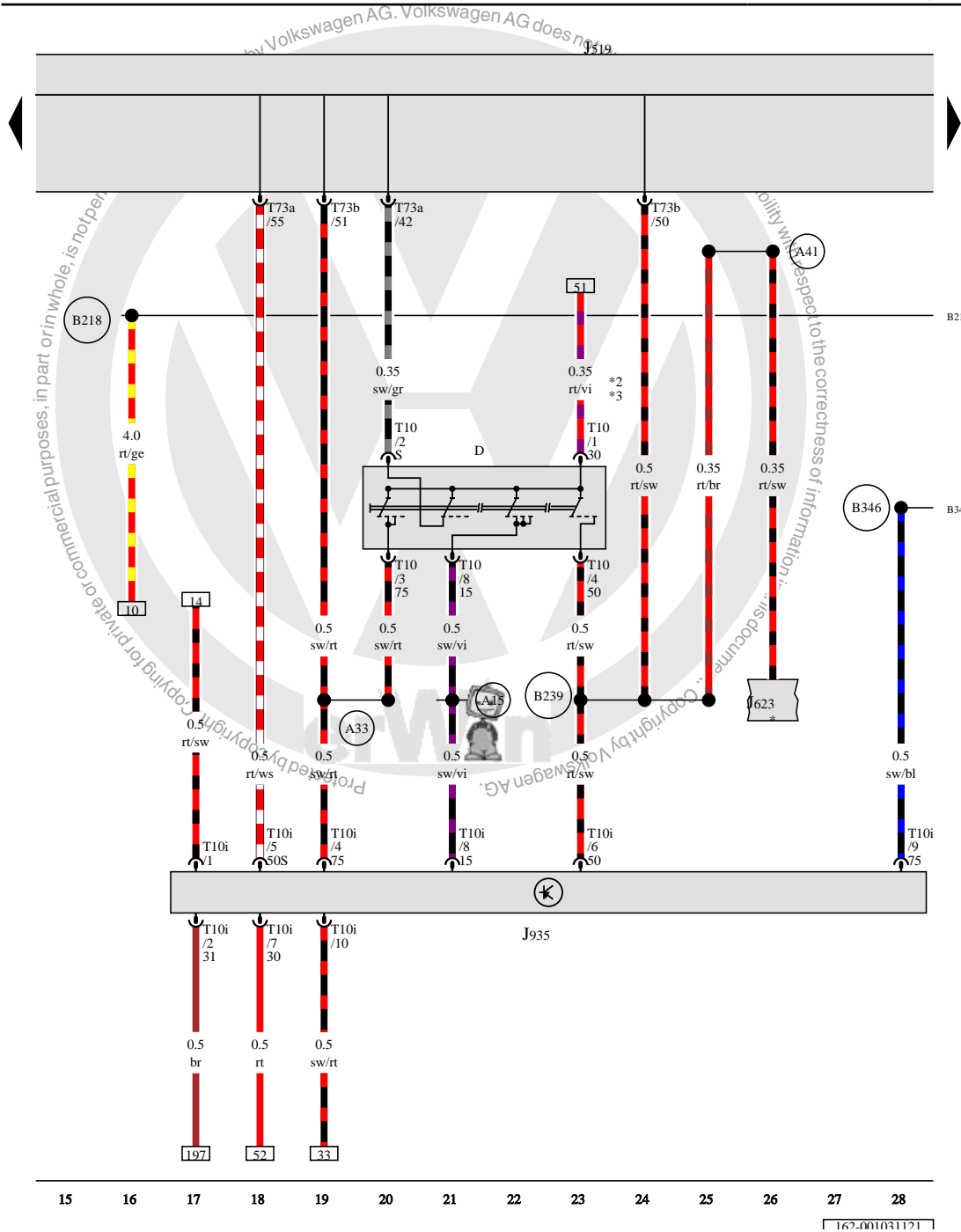
**Vehicle Electrical System Control Module, Terminal 50
Power Supply Relay, Fuse 1 (On Fuse Panel A), Fuse 4
(On Fuse Panel A), Fuse Panel B**

- A Battery
- B Starter
- C Generator
- J519 Vehicle Electrical System Control Module
- J682 Terminal 50 Power Supply Relay
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- SB15 Fuse 15 (On Fuse Panel B)
- SB19 Fuse 19 (On Fuse Panel B)
- SB20 Fuse 20 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- SB30 Fuse 30 (On Fuse Panel B)
- T9c 9-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

508 Terminal 30 Threaded Connection (On E-Box)

- * Running Change
- *2 Omitted as a Running Change

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

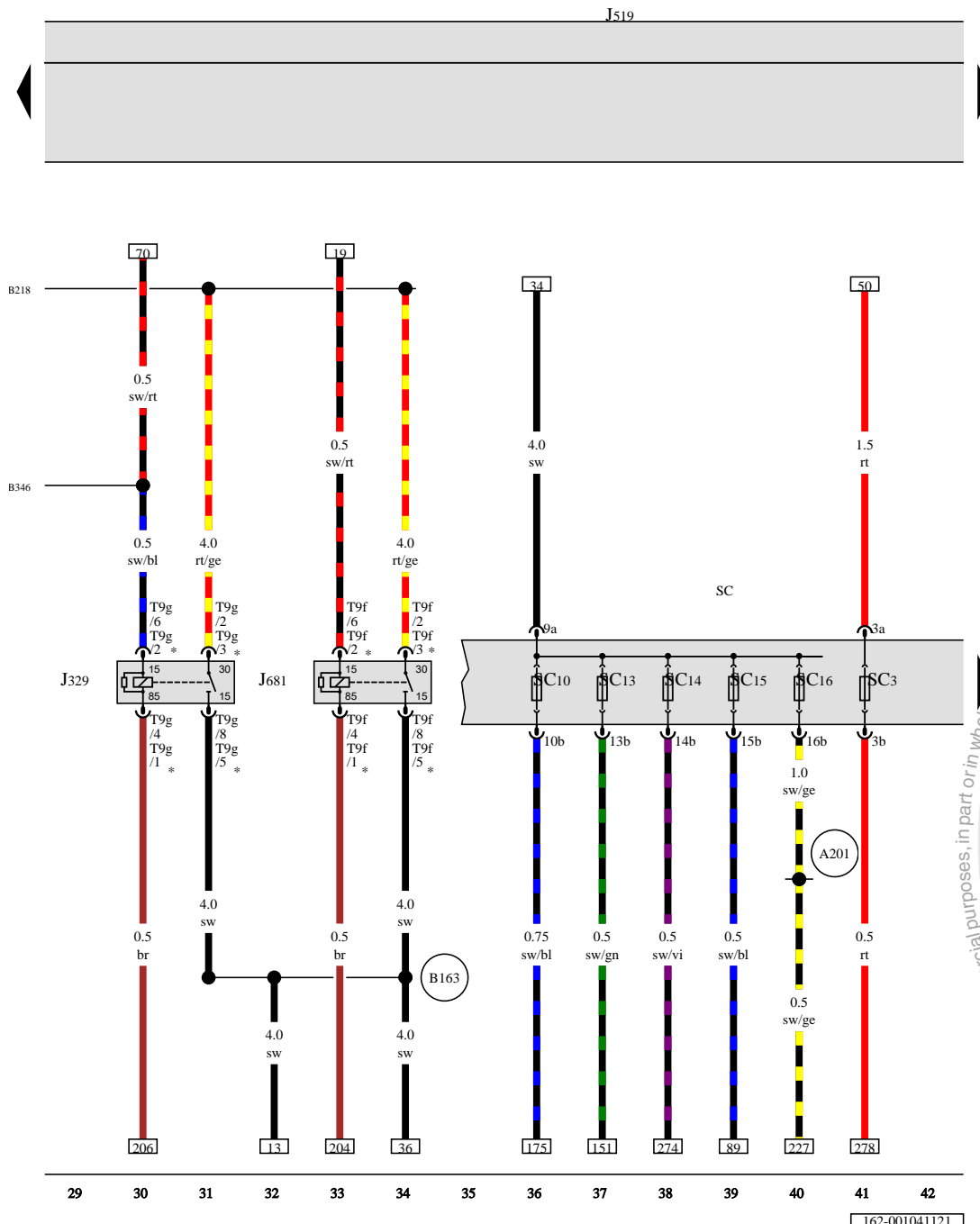


Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box

- D Ignition/Starter Switch
- J519 Vehicle Electrical System Control Module
- J623 Engine/Motor Control Module
- J935 Converter Box
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- A15 Plus Connection (15) (in Instrument Cluster Wiring Harness)
- A33 Connection 75 (in Instrument Panel Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B239 Positive Connection 1 (50) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * Refer to Applicable Engine Wiring Diagram
- *2 The Color of the Wires Depends on Vehicle Equipment
- *3 Diameter Depends on Equipment

- ws = white
- sw = black
- ro = red
- rt = red
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- rs = pink

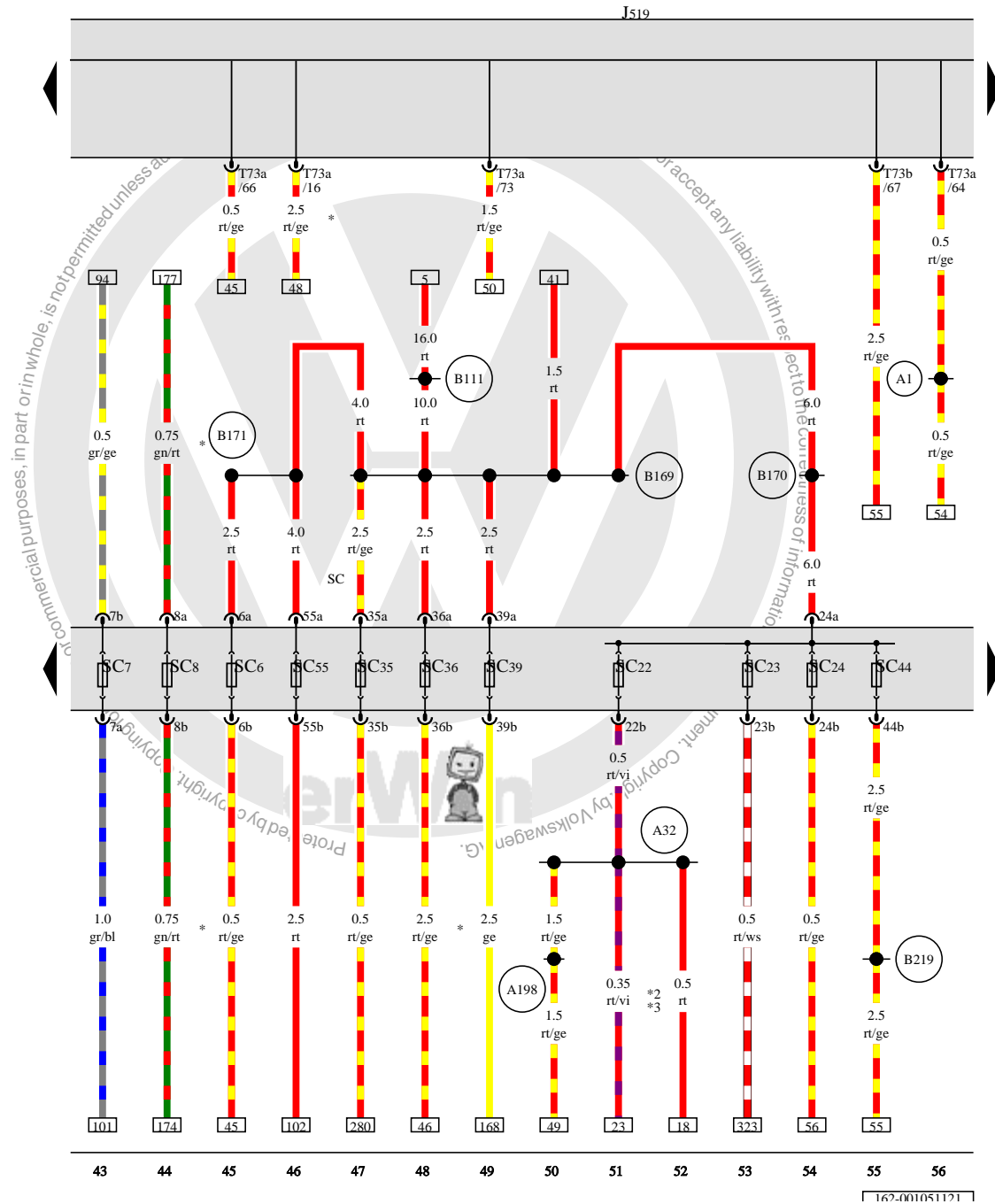


Terminal 15 Power Supply Relay, Vehicle Electrical System Control Module, Terminal 15 Power Supply Relay 2, Fuse Panel C

- J329 Terminal 15 Power Supply Relay
- J519 Vehicle Electrical System Control Module
- J681 Terminal 15 Power Supply Relay 2
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC10 Fuse 10 (On Fuse Panel C)
- SC13 Fuse 13 (On Fuse Panel C)
- SC14 Fuse 14 (On Fuse Panel C)
- SC15 Fuse 15 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- T9f 9-Pin Connector
- T9g 9-Pin Connector

- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * Running Change

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- rt = red
- br = brown
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Vehicle Electrical System Control Module, Fuse Panel C

J519 Vehicle Electrical System Control Module

SC Fuse Panel C

SC6 Fuse 6 (On Fuse Panel C)

SC7 Fuse 7 (On Fuse Panel C)

SC8 Fuse 8 (On Fuse Panel C)

SC22 Fuse 22 (On Fuse Panel C)

SC23 Fuse 23 (On Fuse Panel C)

SC24 Fuse 24 (On Fuse Panel C)

SC35 Fuse 35 (On Fuse Panel C)

SC36 Fuse 36 (On Fuse Panel C)

SC39 Fuse 39 (On Fuse Panel C)

SC44 Fuse 44 (On Fuse Panel C)

SC55 Fuse 55 (On Fuse Panel C)

T73a 73-Pin Connector

T73b 73-Pin Connector

A1 Positive Connection 30a (in Instrument Panel Wiring Harness)

A32 Positive Connection (30) (in Instrument Panel Wiring Harness)

A198 Positive Connection 6 (30a) (in Instrument Panel Wiring Harness)

B111 Positive Connection 1 (30a) (in Interior Wiring Harness)

B169 Positive Connection 1 (30) (in Interior Wiring Harness)

B170 Positive Connection 2 (30) (in Interior Wiring Harness)

B171 Positive Connection 3 (30) (in Interior Wiring Harness)

B219 Positive Connection 4 (30a) (in Interior Wiring Harness)

* Running Change

*2 The Color of the Wires Depends on Vehicle Equipment

*3 Diameter Depends on Equipment

Vehicle Electrical System Control Module, Terminal 75
Power Supply Relay 1, Fuse Panel C

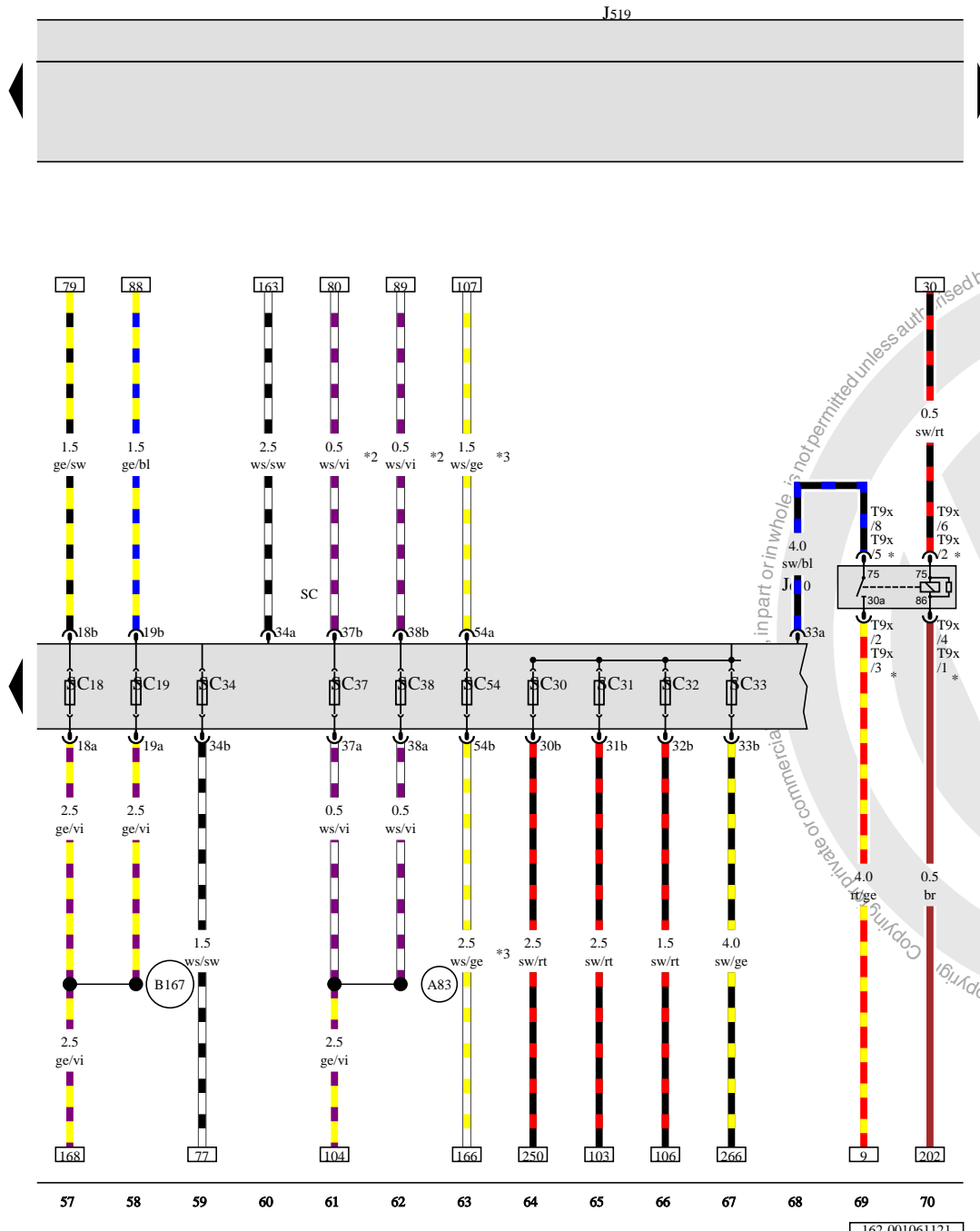
- J519 Vehicle Electrical System Control Module
- J680 Terminal 75 Power Supply Relay 1
- SC Fuse Panel C
- SC18 Fuse 18 (On Fuse Panel C)
- SC19 Fuse 19 (On Fuse Panel C)
- SC30 Fuse 30 (On Fuse Panel C)
- SC31 Fuse 31 (On Fuse Panel C)
- SC32 Fuse 32 (On Fuse Panel C)
- SC33 Fuse 33 (On Fuse Panel C)
- SC34 Fuse 34 (On Fuse Panel C)
- SC37 Fuse 37 (On Fuse Panel C)
- SC38 Fuse 38 (On Fuse Panel C)
- SC54 Fuse 54 (On Fuse Panel C)
- T9x 9-Pin Connector

A83 Daytime Running Lamps Connection (in Instrument Panel Wiring Harness)

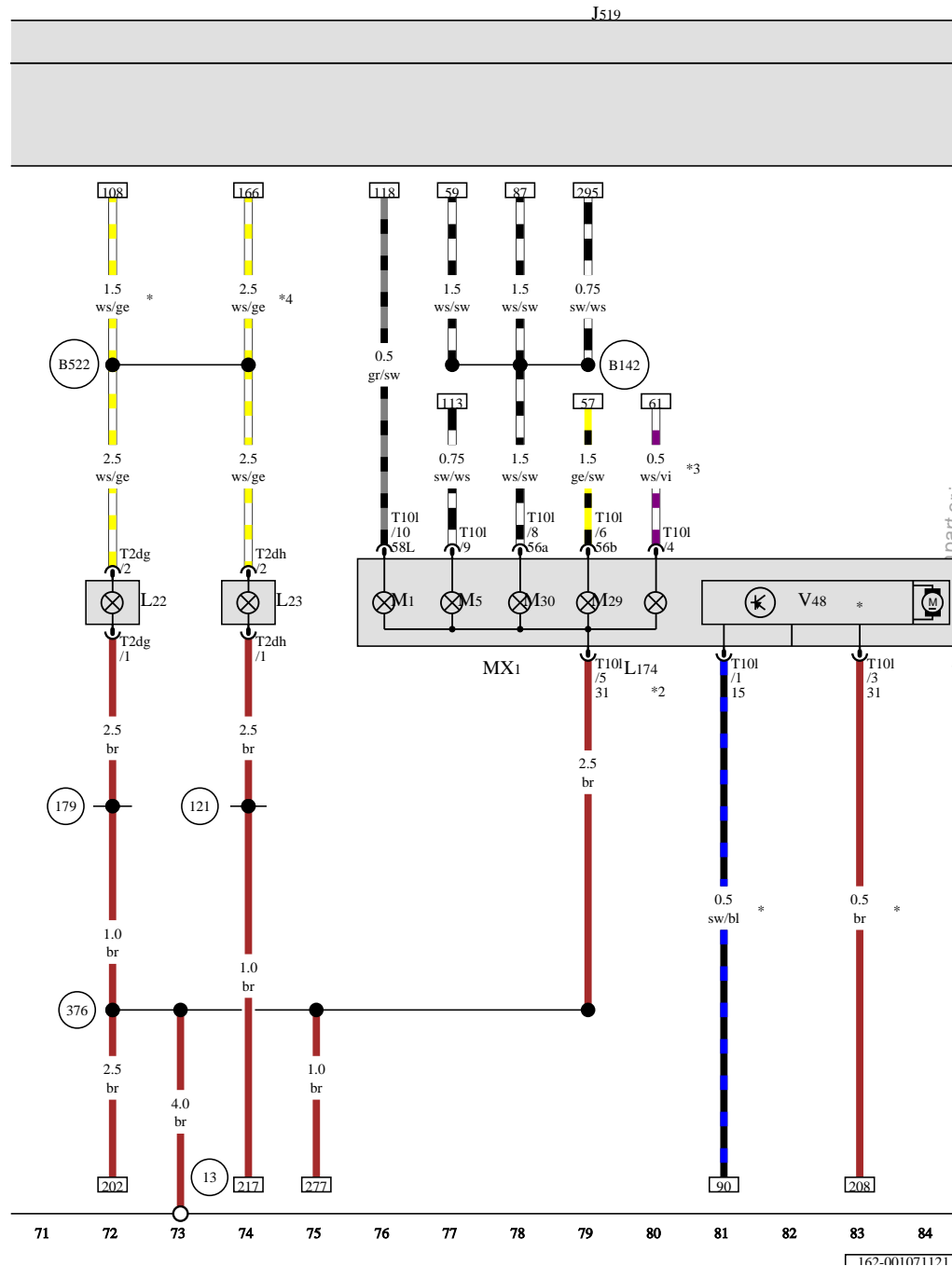
B167 Connection 56b (in Interior Wiring Harness)

- * Running Change
- *2 For Vehicles with Daytime Running Lamps
- *3 For USA Only

- ws = white
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- ro = red
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- gn = green
- bl = blue
- gr = grey
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Vehicle Electrical System Control Module, Left Front Fog Lamp Bulb, Right Front Fog Lamp Bulb, Left Position Lamp Bulb, Left Front Headlamp, Left Front Turn Signal Bulb, Left Headlamp Range Control Adjustment Motor



J519 Vehicle Electrical System Control Module

L22 Left Front Fog Lamp Bulb

L23 Right Front Fog Lamp Bulb

L174 Left Daytime Running Lamp Bulb

M1 Left Position Lamp Bulb

MX1 Left Front Headlamp

M5 Left Front Turn Signal Bulb

M29 Left Low Beam Headlamp Bulb

M30 Left High Beam Headlamp Bulb

T2dg 2-Pin Connector

T2dh 2-Pin Connector

T10i 10-Pin Connector

V48 Left Headlamp Range Control Adjustment Motor

13 Ground Connection in Engine/Motor Compartment, Right

121 Ground Connection 2 (in Right Front Wiring Harness)

179 Ground Connection (in Left Headlamp Wiring Harness)

376 Ground Connection 11 (in Main Wiring Harness)

B142 Positive Connection 2 (56a) (in Interior Wiring Harness)

B522 Fog Lamp Connection (in Main Wiring Harness)

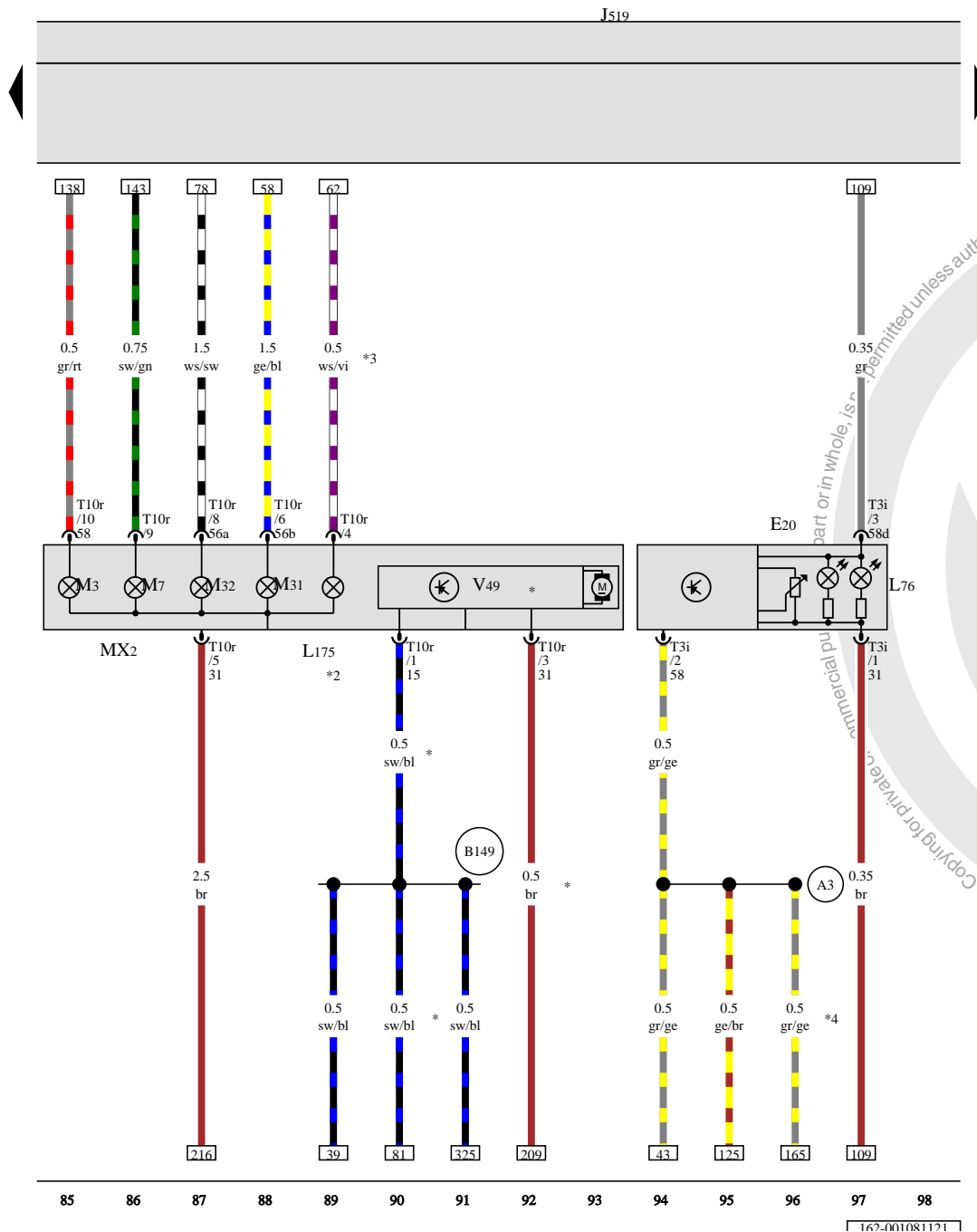
* Not for USA

*2 Depending on Equipment

*3 For Vehicles with Daytime Running Lamps

*4 For USA Only

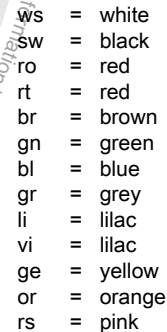
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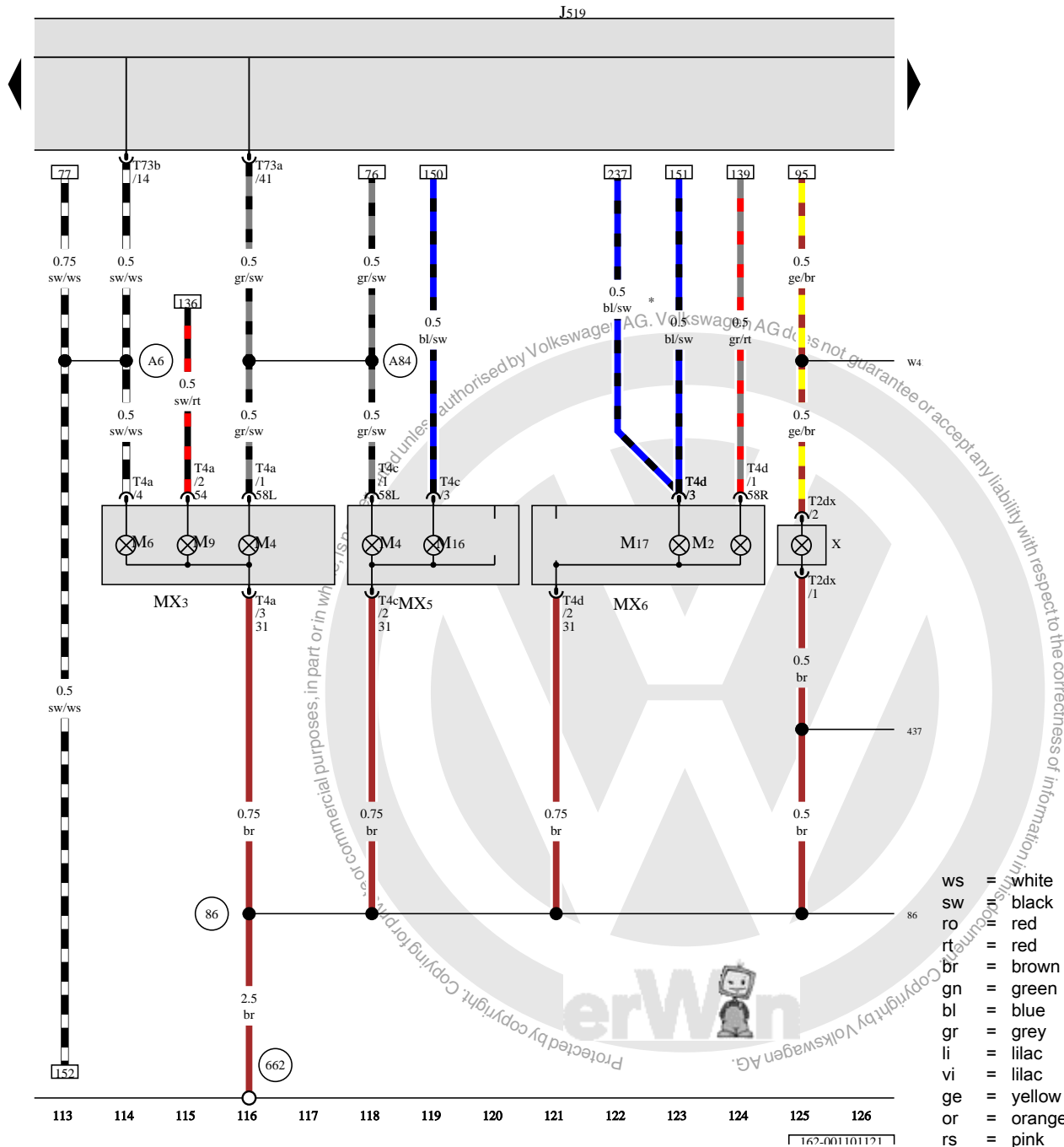


Instrument Panel and Switch Illumination Dimmer Switch, Vehicle Electrical System Control Module, Right Front Headlamp, Right Position Lamp Bulb, Right Front Turn Signal Bulb, Right Headlamp Range Control Adjustment Motor

- E20 Instrument Panel and Switch Illumination Dimmer Switch
- J519 Vehicle Electrical System Control Module
- L76 Push Button Illumination Bulb
- L175 Right Daytime Running Lamp Bulb
- MX2 Right Front Headlamp
- M3 Right Position Lamp Bulb
- M7 Right Front Turn Signal Bulb
- M31 Right Low Beam Headlamp Bulb
- M32 Right High Beam Headlamp Bulb
- T3i 3-Pin Connector
- T10r 10-Pin Connector
- V49 Right Headlamp Range Control Adjustment Motor
- A3 Positive Connection (58) (in Instrument Panel Wiring Harness)
- B149 Positive Connection 2 (15a) (in Interior Wiring Harness)
- * Not for USA
- *2 Depending on Equipment
- *3 For Vehicles with Daytime Running Lamps
- *4 For USA Only

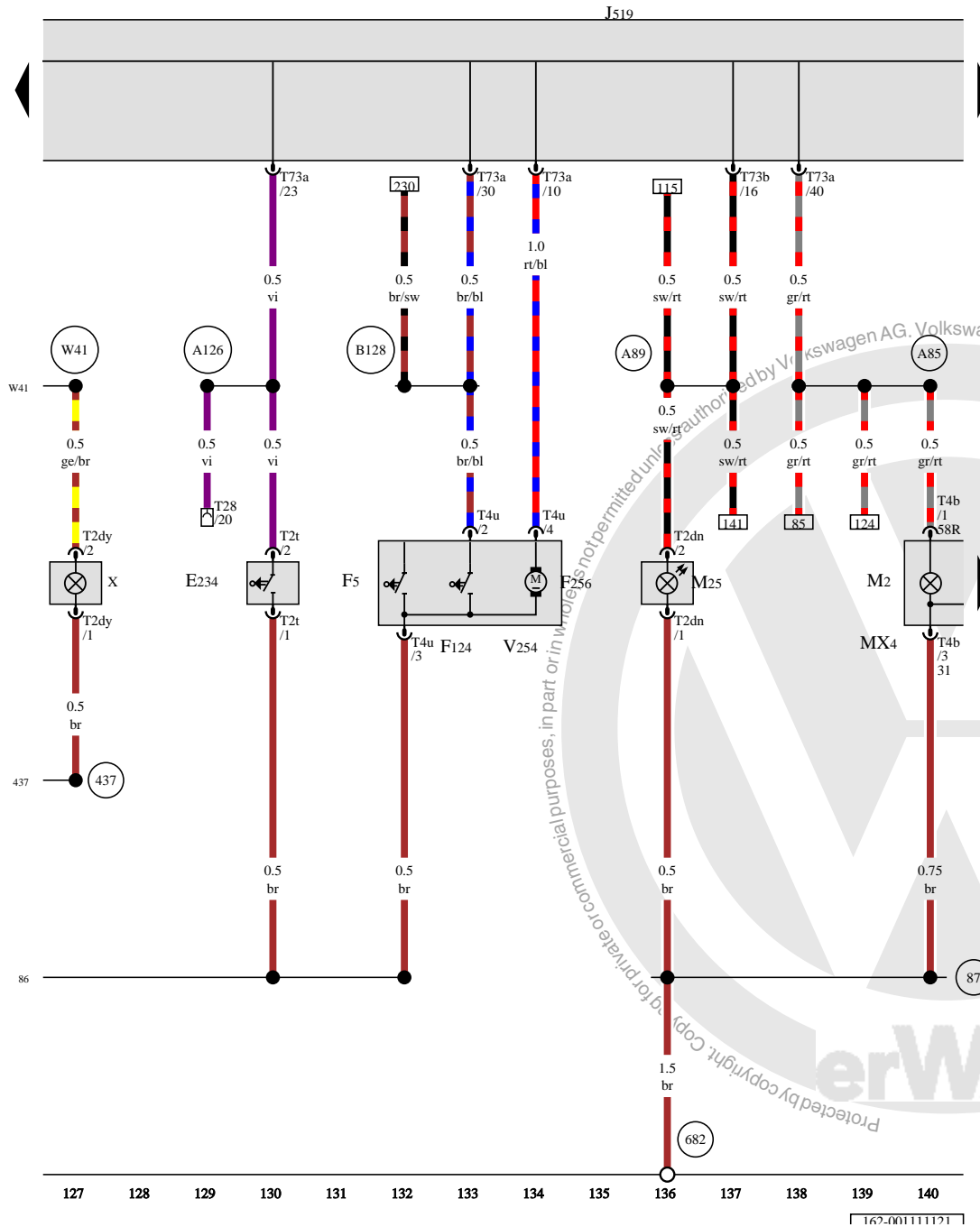
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gn = green
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Vehicle Electrical System Control Module, Left Tail Lamp, Left Tail Lamp 2, Left Rear Turn Signal Bulb, Right Tail Lamp 2, Left Brake Lamp Bulb, Left Back-Up Lamp Bulb, Right Back-Up Lamp Bulb

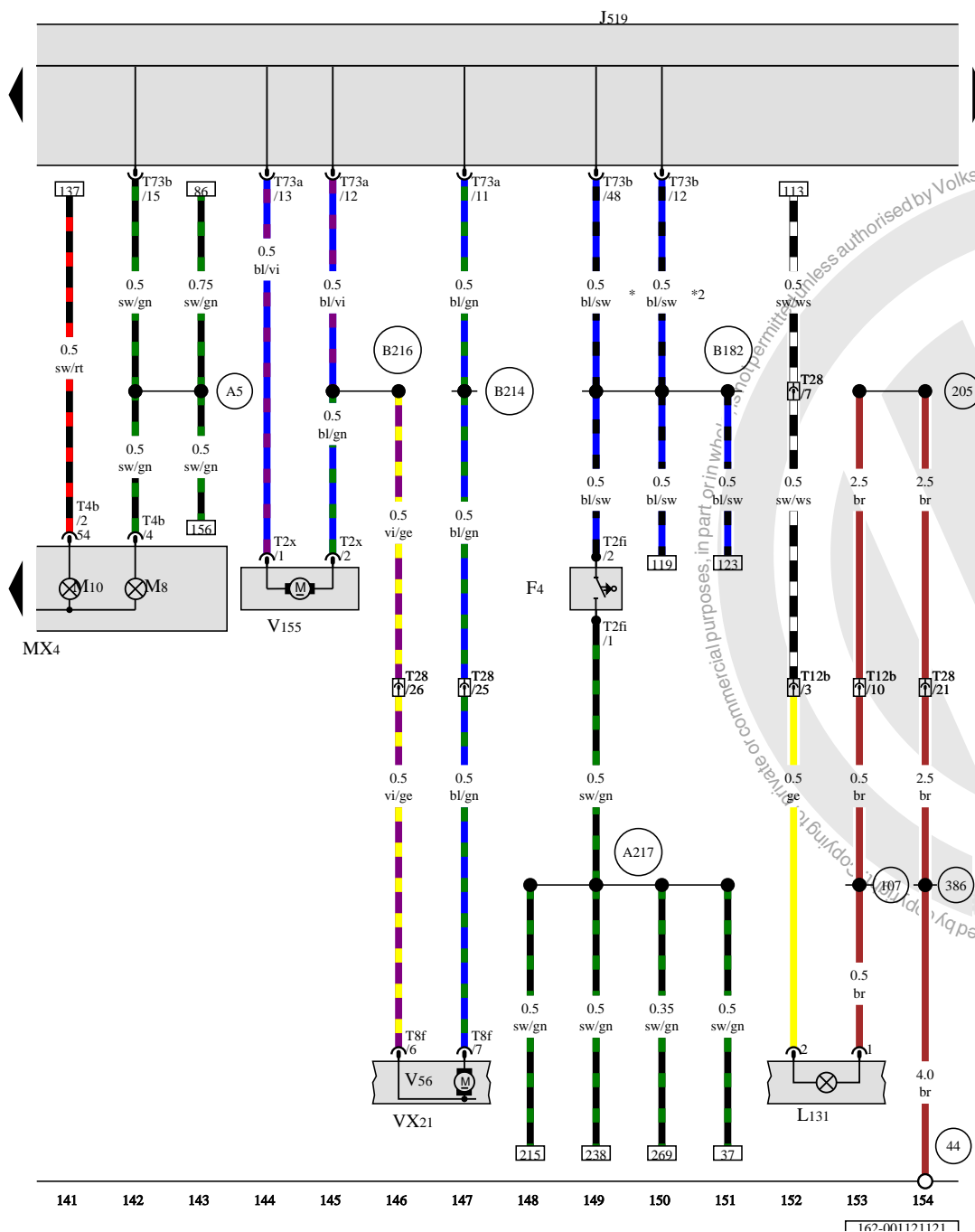
- J519 Vehicle Electrical System Control Module
- M2 Right Tail Lamp Bulb
- MX3 Left Tail Lamp
- M4 Left Tail Lamp Bulb
- MX5 Left Tail Lamp 2
- M6 Left Rear Turn Signal Bulb
- MX6 Right Tail Lamp 2
- M9 Left Brake Lamp Bulb
- M16 Left Back-Up Lamp Bulb
- M17 Right Back-Up Lamp Bulb
- T2dx 2-Pin Connector
- T4a 4-Pin Connector
- T4c 4-Pin Connector
- T4d 4-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- X License Plate Lamp
- 86 Ground Connection 1 (in Rear Wiring Harness)
- 437 Ground Connection (in License Plate Lamp Wiring Harness)
- 662 Ground Connection in Left Rear Side Panel
- A6 Left Turn Signal Positive Connection (in Instrument Panel Wiring Harness)
- A84 Connection 58L (in Instrument Panel Wiring Harness)
- W41 Positive Connection (58) (in License Plate Lamp Wiring Harness)
- * For Vehicles with Automatic Dimming Interior Rearview Mirror



Release Button in Rear Lid Handle, Luggage Compartment Lamp Switch, Rear Lid Lock Cylinder/Anti-Theft Alarm/Central Locking Contact Switch, Rear Lid Lock Unit, Vehicle Electrical System Control Module, Right Tail Lamp, High-Mounted Brake Lamp Bulb, Power Rear Lid Opening Motor, License Plate Lamp

- E234 Release Button in Rear Lid Handle
- F5 Luggage Compartment Lamp Switch
- F124 Rear Lid Lock Cylinder/Anti-Theft Alarm/Central Locking Contact Switch
- F256 Rear Lid Lock Unit
- J519 Vehicle Electrical System Control Module
- M2 Right Tail Lamp Bulb
- MX4 Right Tail Lamp
- M25 High-Mounted Brake Lamp Bulb
- T2dn 2-Pin Connector
- T2dy 2-Pin Connector
- T2t 2-Pin Connector
- T4b 4-Pin Connector
- T4u 4-Pin Connector
- T28 28-Pin Connector, Left A-Pillar, Bottom
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- V254 Power Rear Lid Opening Motor
- X License Plate Lamp

- 86 Ground Connection 1 (in Rear Wiring Harness)
- 87 Ground Connection 2 (in Rear Wiring Harness)
- 437 Ground Connection (in License Plate Lamp Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- A85 Connection 58R (in Instrument Panel Wiring Harness)
- A89 Connection 54 (in Instrument Panel Wiring Harness) 2
- A126 Rear Lid Contact Switch Connection (in Instrument Panel Wiring Harness)
- B128 Luggage Compartment Lamp Connection (in Interior Wiring Harness)
- W41 Positive Connection (58) (in License Plate Lamp Wiring Harness)

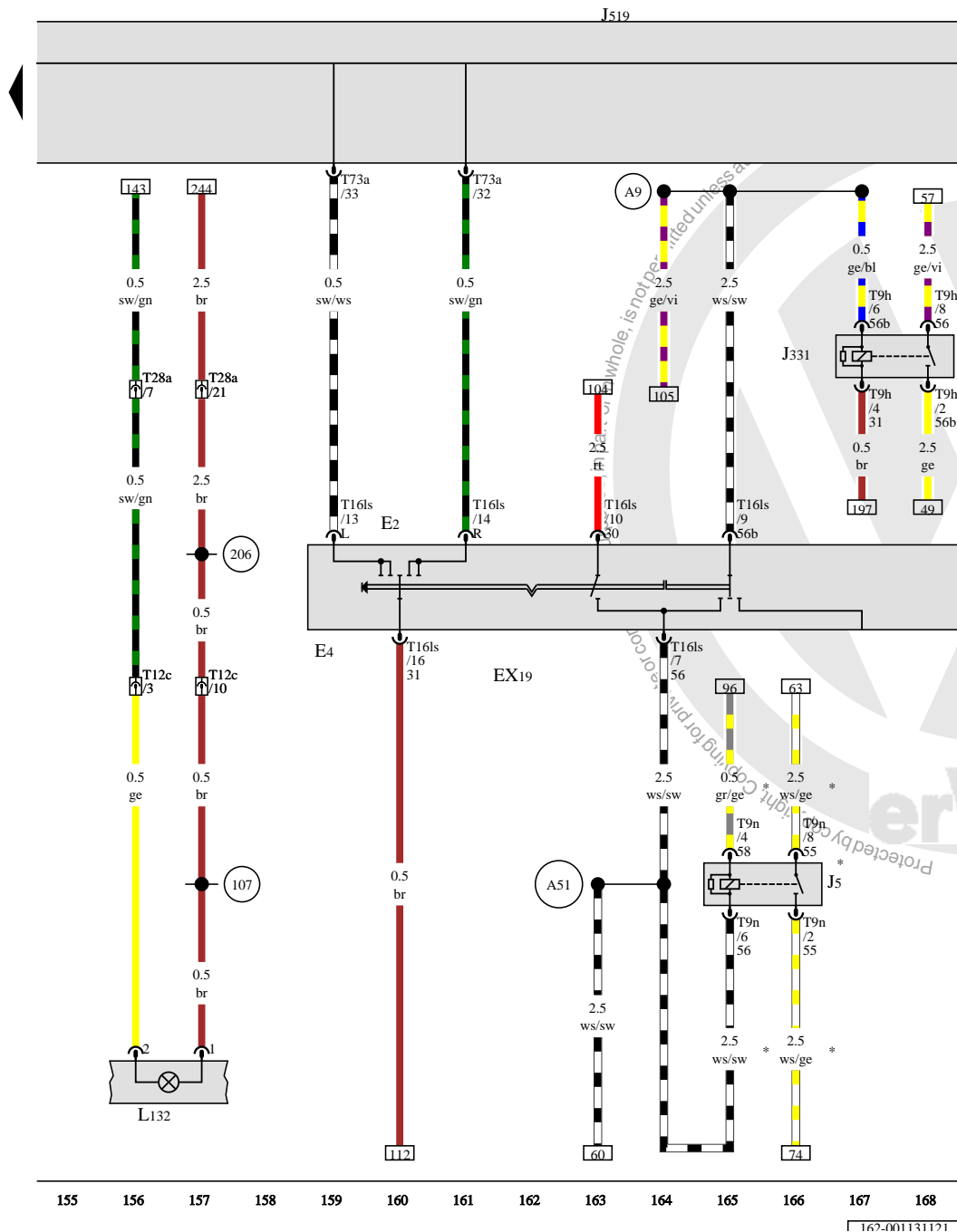


Back-Up Lamp Switch, Vehicle Electrical System Control Module, Driver Exterior Rearview Mirror Turn Signal Bulb, Right Tail Lamp, Right Rear Turn Signal Bulb, Right Brake Lamp Bulb, Driver Door Central Locking System Motor, Fuel Filler Door Lock Motor

- F4 Back-Up Lamp Switch
- J519 Vehicle Electrical System Control Module
- L131 Driver Exterior Rearview Mirror Turn Signal Bulb
- MX4 Right Tail Lamp
- M8 Right Rear Turn Signal Bulb
- M10 Right Brake Lamp Bulb
- T2fi 2-Pin Connector
- T2x 2-Pin Connector
- T4b 4-Pin Connector
- T8f 8-Pin Connector
- T12b 12-Pin Connector, In the Driver Door
- T28 28-Pin Connector, Left A-Pillar, Bottom
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- VX21 Driver Door Lock Unit
- V56 Driver Door Central Locking System Motor
- V155 Fuel Filler Door Lock Motor

- 44 Ground Connection on A-Pillar, Lower Left
- 107 Ground Connection (in Exterior Mirror Wiring Harness)
- 205 Ground Connection (in Driver Door Wiring Harness)
- 386 Ground Connection 21 (in Main Wiring Harness)
- A5 Right Turn Signal Positive Connection (in Instrument Panel Wiring Harness)
- A217 Positive Connection 8 (15a) (in Instrument Panel Wiring Harness)
- B182 Connection Rf (in Interior Wiring Harness)
- B214 Central Locking Connection 1 (in Interior Wiring Harness)
- B216 Central Locking Connection 3 (in Interior Wiring Harness)
- * For Vehicles with a Manual Transmission
- *2 For Vehicles with Automatic Transmission

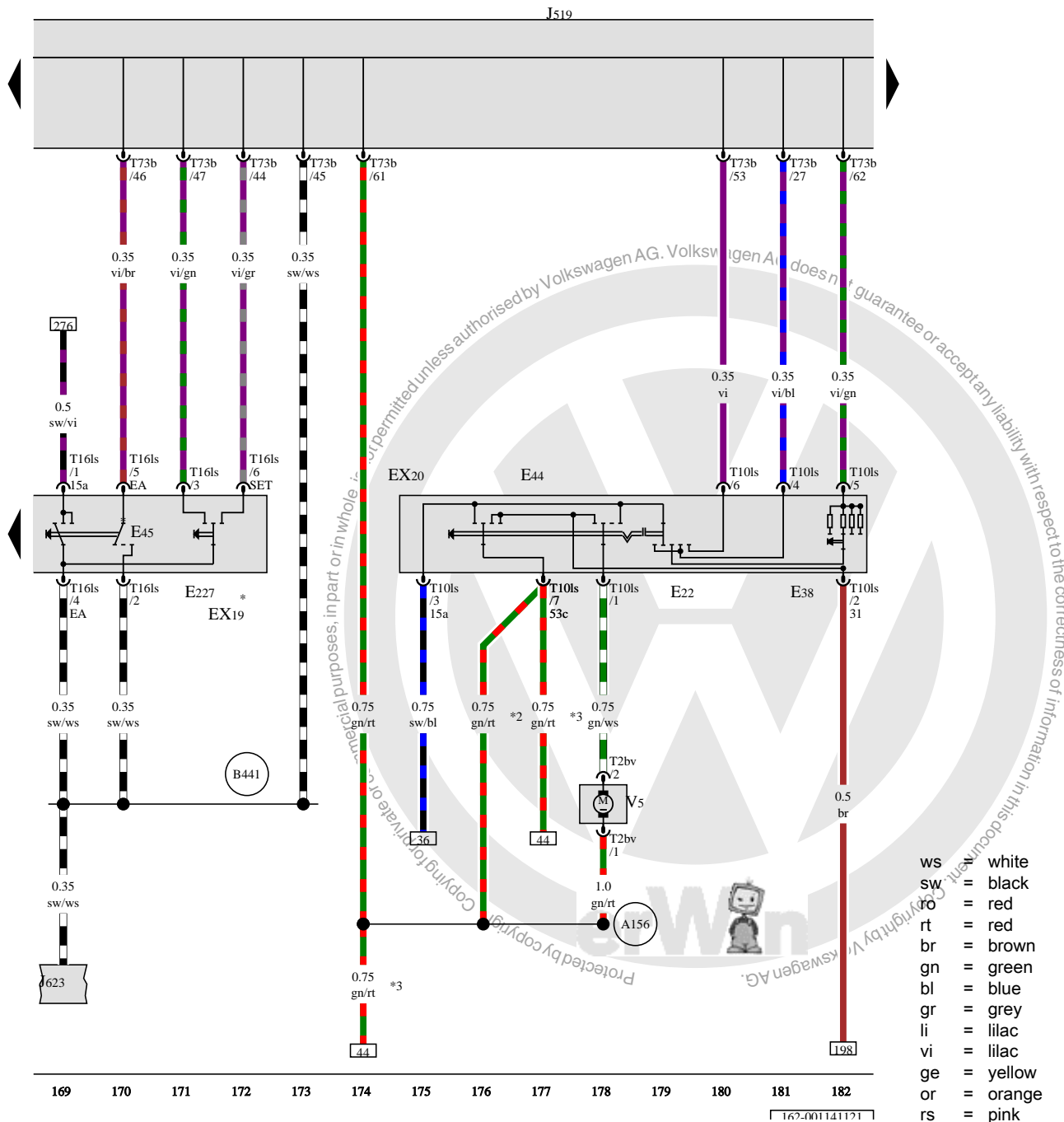
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 bl = blue
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Turn Signal Switch, Headlamp Dimmer/Flasher Switch, Left Steering Column Switch, Vehicle Electrical System Control Module, Front Passenger Exterior Rearview Mirror Turn Signal Bulb

- E2 Turn Signal Switch
- E4 Headlamp Dimmer/Flasher Switch
- EX19 Left Steering Column Switch
- J5 Fog Lamp Relay
- J331 Low Beam Relay
- J519 Vehicle Electrical System Control Module
- L132 Front Passenger Exterior Rearview Mirror Turn Signal Bulb
- T9h 9-Pin Connector
- T9n 9-Pin Connector
- T12c 12-Pin Connector, In the Front Passenger Door
- T16ls 16-Pin Connector
- T28a 28-Pin Connector, Right A-Pillar, Bottom
- T73a 73-Pin Connector
- 107 Ground Connection (in Exterior Mirror Wiring Harness)
- 206 Ground Connection (in Front Passenger Door Wiring Harness)
- A9 Positive Connection (56b) (in Instrument Cluster Wiring Harness)
- A51 Connection 56 (in Instrument Panel Wiring Harness)
- * For USA Only

ws = white
 sw = black
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 rt = red
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 gn = green
 bl = blue
 gr = grey
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Left Steering Column Switch, Windshield Wiper Intermittent Mode Switch, Windshield and Headlamp Washer Pump Switch, Cruise Control Switch, Cruise Control -Set- Button, Vehicle Electrical System Control Module

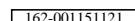
- EX19 Left Steering Column Switch
- EX20 Right Steering Column Switch
- E22 Windshield Wiper Intermittent Mode Switch
- E38 Windshield Wiper Intermittent Regulator
- E44 Windshield and Headlamp Washer Pump Switch
- E45 Cruise Control Switch
- E227 Cruise Control -Set- Button
- J519 Vehicle Electrical System Control Module
- J623 Engine/Motor Control Module
- T2bv 2-Pin Connector
- T10ls 10-Pin Connector
- T16ls 16-Pin Connector
- T73b 73-Pin Connector
- V5 Windshield Washer Pump

A156 Connection 53c (in Instrument Panel Wiring Harness)

B441 Cruise Control Connection (in Main Wiring Harness)

- * For Vehicles with Cruise Control System
- *2 Omitted as a Running Change
- *3 Running Change

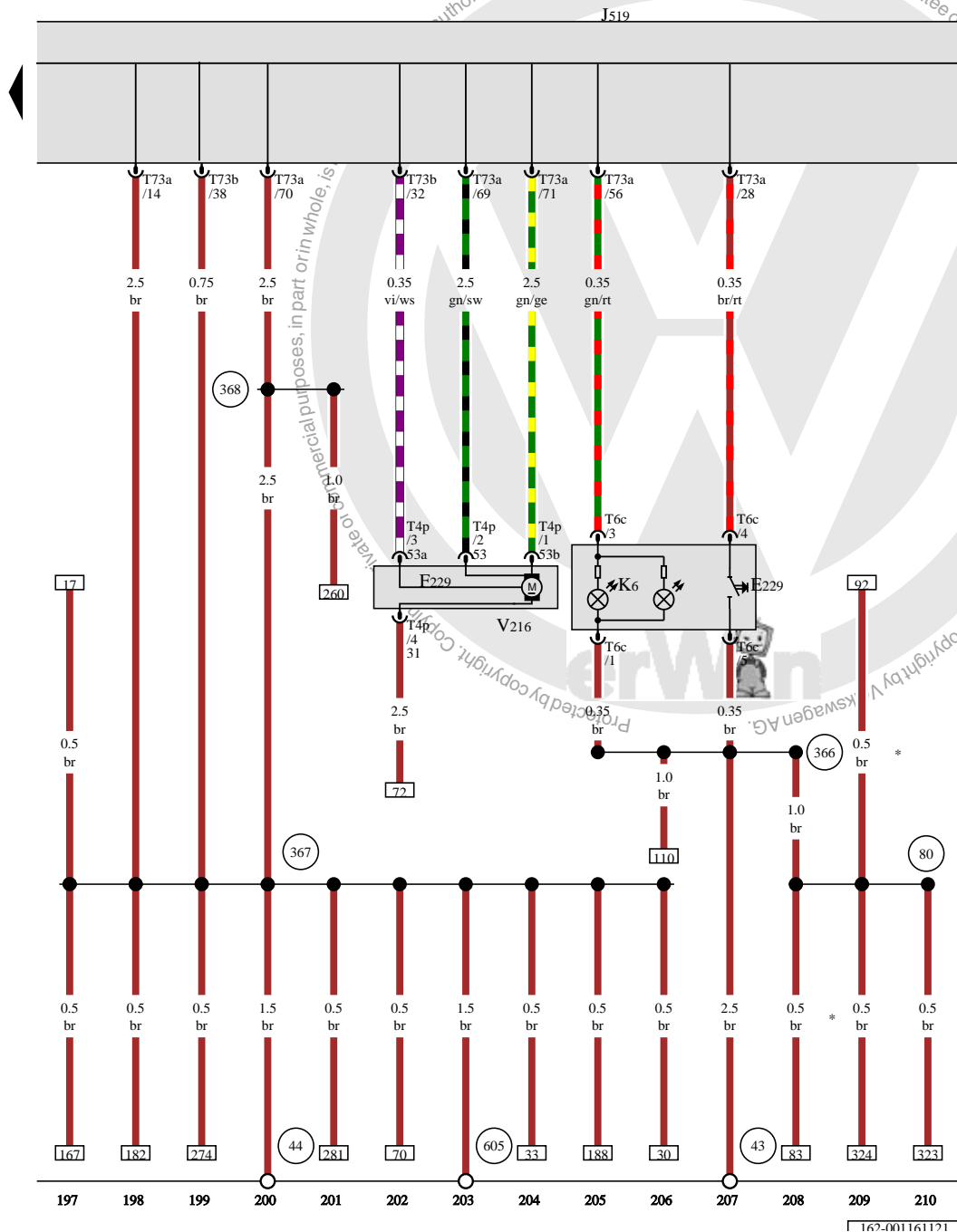
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| | |
|------|---|
| F138 | Airbag Spiral Spring/Return Spring with Slip Ring |
| G85 | Steering Angle Sensor |
| H | Signal Horn Activation |
| J234 | Airbag Control Module |
| J453 | Multifunction Steering Wheel Control Module |
| J519 | Vehicle Electrical System Control Module |
| N95 | Driver Airbag Igniter |
| T4k | 4-Pin Connector |
| T12k | 12-Pin Connector |
| T16k | 16-Pin Connector |
| T73a | 73-Pin Connector |
| T73b | 73-Pin Connector |
| T75 | 75-Pin Connector |

- * Depending on Equipment
- *2 For Vehicles with a Multifunction Steering Wheel
- *3 The Color of the Wires Depends on Vehicle Equipment

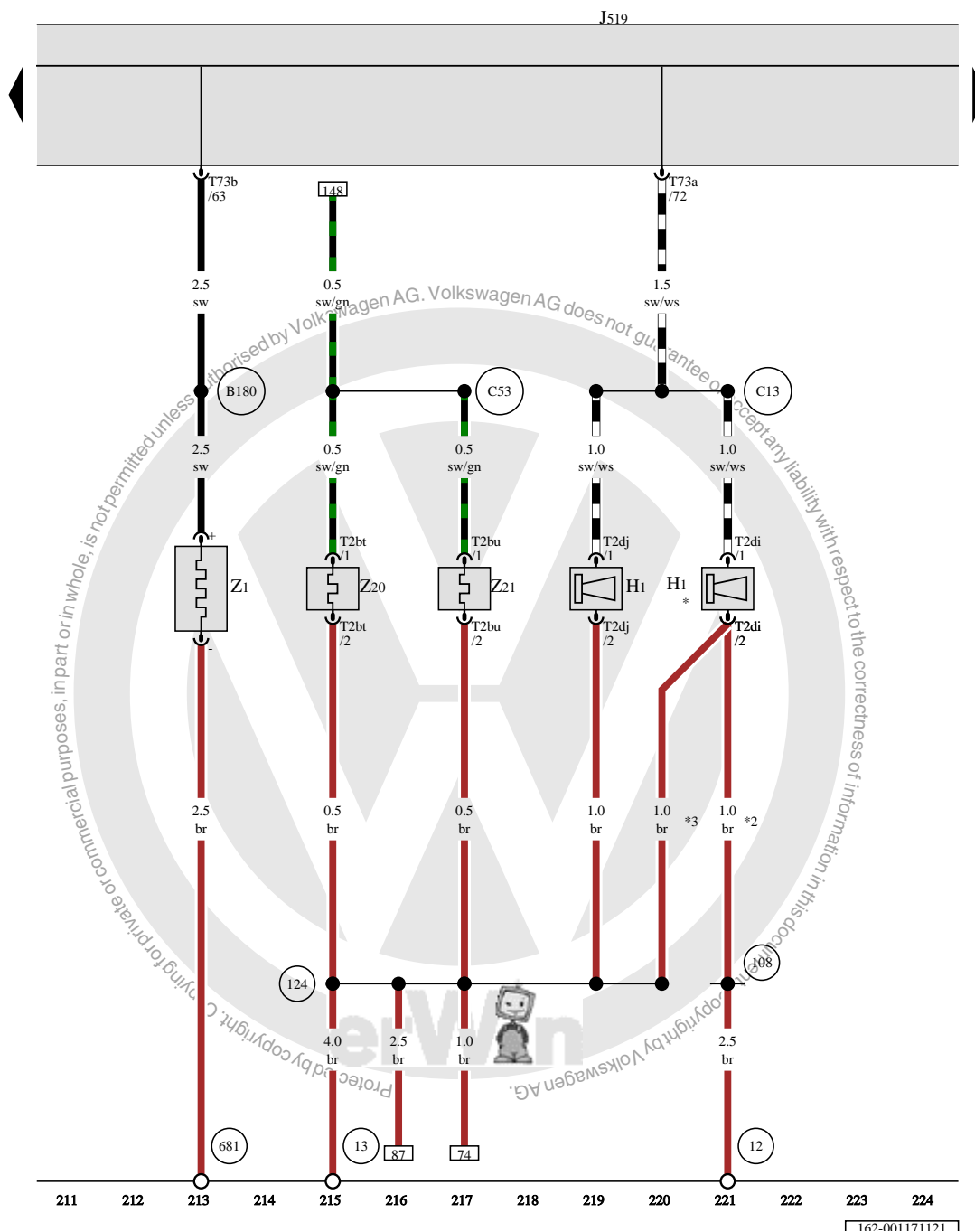
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Emergency Flasher Button, Vehicle Electrical System Control Module, Emergency Flasher Indicator Lamp, Driver Windshield Wiper Motor

- E229 Emergency Flasher Button
- F229 Windshield Wiper Stop Switch
- J519 Vehicle Electrical System Control Module
- K6 Emergency Flasher Indicator Lamp
- T4p 4-Pin Connector
- T6c 6-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- V216 Driver Windshield Wiper Motor

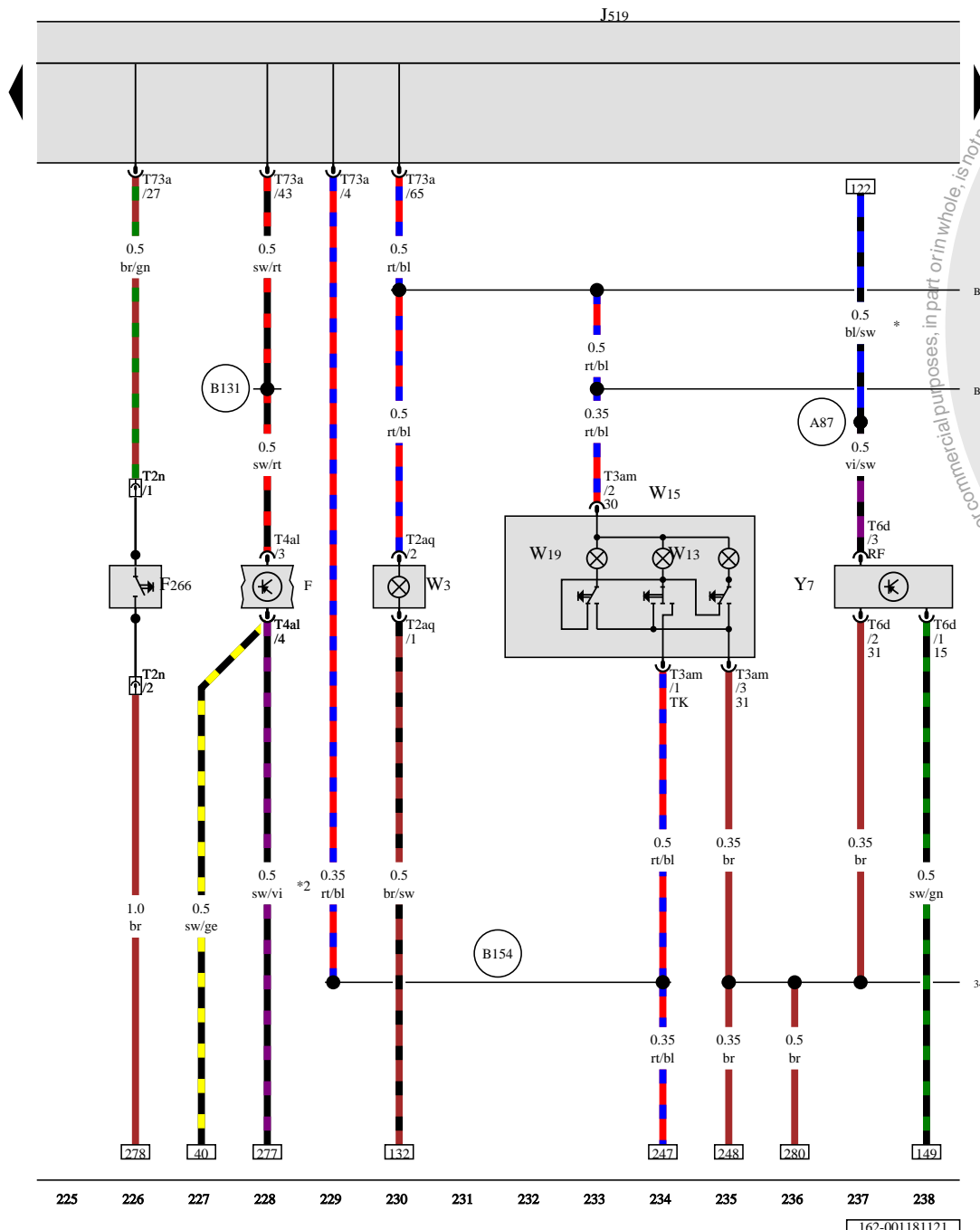
- 43 Ground Connection on A-Pillar, Lower Right
- 44 Ground Connection on A-Pillar, Lower Left
- 80 Ground Connection 1 (in Instrument Cluster Wiring Harness)
- 366 Ground Connection 1 (in Main Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 368 Ground Connection 3 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- * Not for USA



Signal Horn and Dual Tone Horn, Vehicle Electrical System Control Module, Rear Window Defogger, Left Washer Nozzle Heater, Right Washer Nozzle Heater

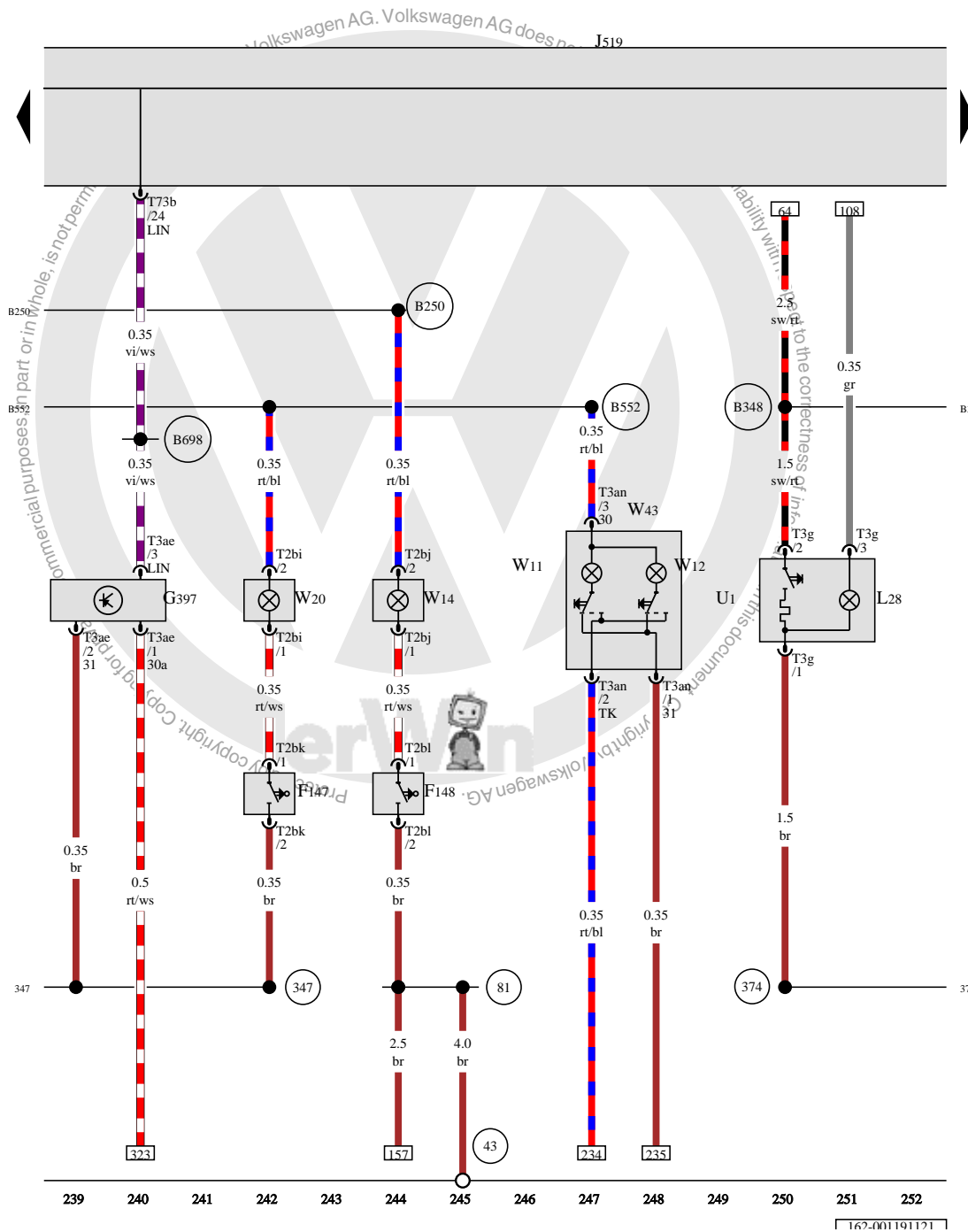
- H1 Signal Horn and Dual Tone Horn
- J519 Vehicle Electrical System Control Module
- T2bt 2-Pin Connector
- T2bu 2-Pin Connector
- T2di 2-Pin Connector
- T2dj 2-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- Z1 Rear Window Defogger
- Z20 Left Washer Nozzle Heater
- Z21 Right Washer Nozzle Heater

- 12 Ground Connection in Engine/Motor Compartment, Left
- 13 Ground Connection in Engine/Motor Compartment, Right
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 124 Ground Connection (in Right Engine/Motor Compartment Wiring Harness)
- 681 Ground Connection 1 in Right Rear Side Panel
- B180 Rear Window Defogger Connection (in Interior Wiring Harness)
- C13 Positive Connection (in Dual Tone Horn Wiring Harness)
- C53 Positive Connection (X) (in Heated Spray Nozzle Wiring Harness)
- * For Vehicles with Dual Tone Horn
- *2 Running Change
- *3 Omitted as a Running Change



Brake Lamp Switch, Engine Hood Contact Switch, Vehicle Electrical System Control Module, Luggage Compartment Lamp, Front Passenger Reading Lamp, Interior Lamp with Delay Switch, Driver Reading Lamp

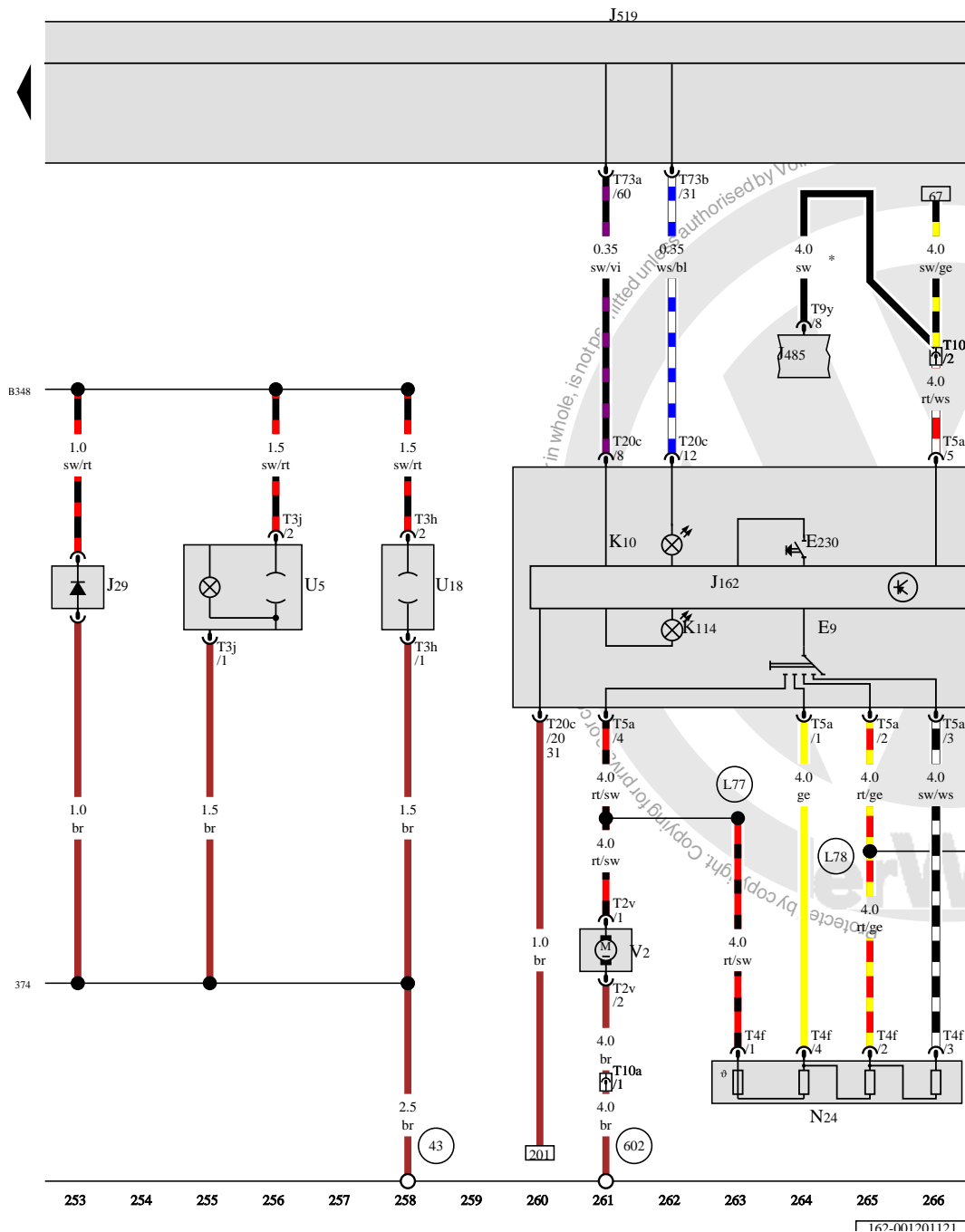
- F Brake Lamp Switch
- F266 Engine Hood Contact Switch
- J519 Vehicle Electrical System Control Module
- T2aq 2-Pin Connector
- T2n 2-Pin Connector, Near the Headlamps
- T3am 3-Pin Connector
- T4al 4-Pin Connector
- T6d 6-Pin Connector
- T73a 73-Pin Connector
- W3 Luggage Compartment Lamp
- W13 Front Passenger Reading Lamp
- W15 Interior Lamp with Delay Switch
- W19 Driver Reading Lamp
- Y7 Automatic Dimming Interior Rearview Mirror
- 347 Ground Connection (in Roof Wiring Harness)
- A87 Back-Up Lamp Connection (in Instrument Panel Wiring Harness)
- B131 Connection 54 (in Interior Wiring Harness)
- B154 Connection 1k (in Interior Wiring Harness) 1
- B250 Positive Connection (in Roof Wiring Harness)
- B552 Positive Connection 2 (in Roof Wiring Harness)
- * For Vehicles with Automatic Dimming Interior Rearview Mirror
- *2 Omitted as a Running Change



Vehicle Electrical System Control Module, Cigarette Lighter Illumination Bulb, Cigarette Lighter, Left Rear Reading Lamp, Right Rear Reading Lamp, Front Passenger Vanity Mirror Lamp, Driver Vanity Mirror Lamp, Rear Interior Lamp

- F147 Driver Vanity Mirror Lamp Contact Switch
- F148 Front Passenger Vanity Mirror Lamp Contact Switch
- G397 Rain/Light Recognition Sensor
- J519 Vehicle Electrical System Control Module
- L28 Cigarette Lighter Illumination Bulb
- T2bi 2-Pin Connector
- T2bj 2-Pin Connector
- T2bk 2-Pin Connector
- T2bl 2-Pin Connector
- T3ae 3-Pin Connector
- T3an 3-Pin Connector
- T3g 3-Pin Connector
- T73b 73-Pin Connector
- U1 Cigarette Lighter
- W11 Left Rear Reading Lamp
- W12 Right Rear Reading Lamp
- W14 Front Passenger Vanity Mirror Lamp
- W20 Driver Vanity Mirror Lamp
- W43 Rear Interior Lamp

- 43 Ground Connection on A-Pillar, Lower Right
- 81 Ground Connection 1 (in Instrument Panel Wiring Harness)
- 347 Ground Connection (in Roof Wiring Harness)
- 374 Ground Connection 9 (in Main Wiring Harness)
- B250 Positive Connection (in Roof Wiring Harness)
- B348 Connection 1 (75A) (in Main Wiring Harness)
- B552 Positive Connection 2 (in Roof Wiring Harness)
- B698 LIN Bus Connection 3 (in Main Wiring Harness)



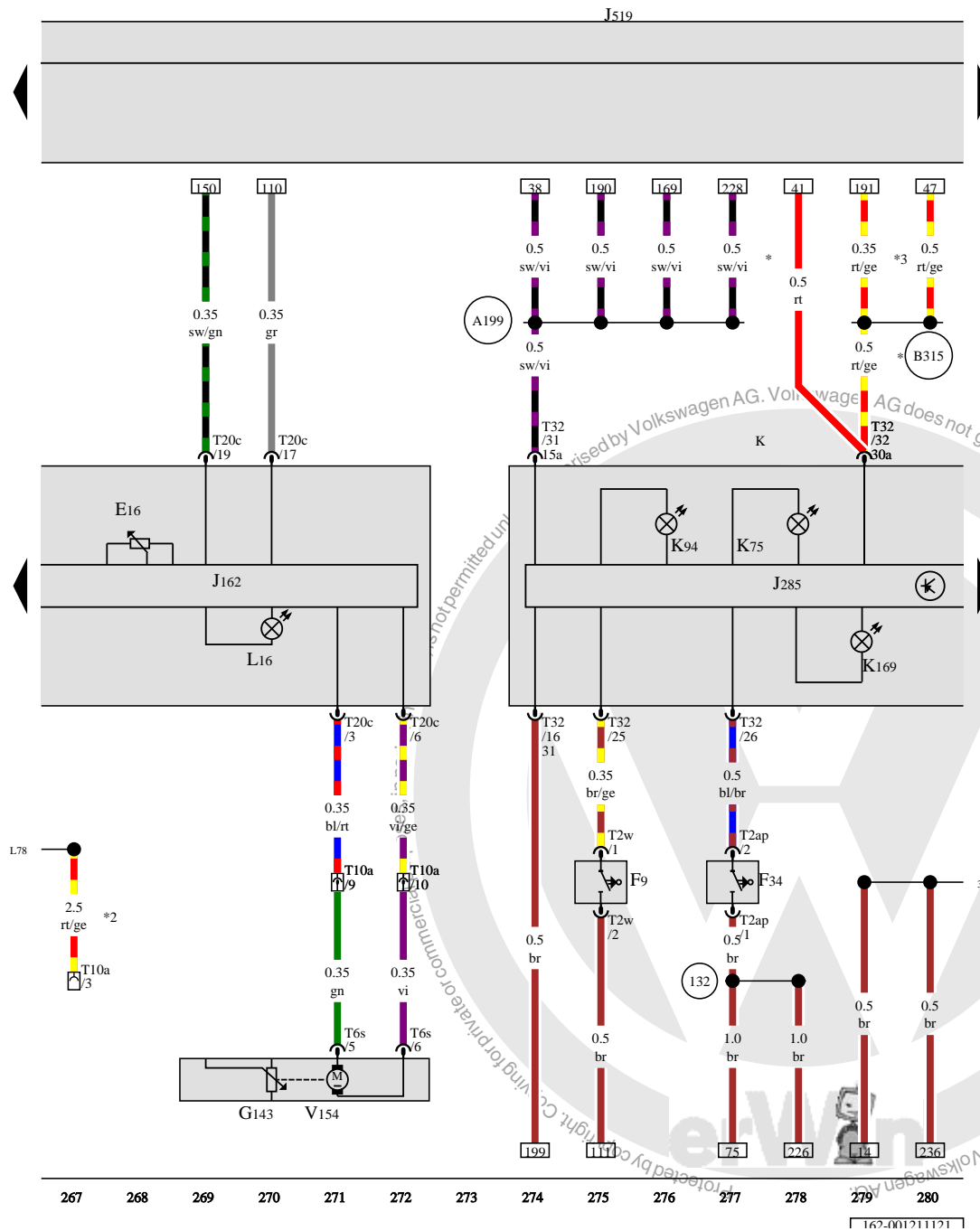
Fresh Air Blower Switch, Blocking Diode, Heater Control Module, Vehicle Electrical System Control Module, Fresh Air Blower Series Resistor with Fuse, 12 V Socket, Fresh Air Blower

- E9 Fresh Air Blower Switch
- E230 Rear Window Defogger Button
- J29 Blocking Diode
- J162 Heater Control Module
- J485 Parking Heater Operation Relay
- J519 Vehicle Electrical System Control Module
- K10 Rear Window Defogger Indicator Lamp
- K114 Fresh Air and Recirculation Mode Indicator Lamp
- N24 Fresh Air Blower Series Resistor with Fuse
- T2v 2-Pin Connector
- T3h 3-Pin Connector
- T3j 3-Pin Connector
- T4f 4-Pin Connector
- T5a 5-Pin Connector
- T9y 9-Pin Connector
- T10a 10-Pin Connector, On the Heater and A/C Unit
- T20c 20-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- U5 12 V Socket
- U18 12 V Socket 2
- V2 Fresh Air Blower

- 43 Ground Connection on A-Pillar, Lower Right
- 374 Ground Connection 9 (in Main Wiring Harness)
- 602 Ground Connection in Left Front Footwell
- B348 Connection 1 (75A) (in Main Wiring Harness)
- L77 Connection (in Fresh Air Blower Wiring Harness)
- L78 Connection 1 (in Fresh Air Blower Wiring Harness)

* Only for Vehicles with Auxiliary Coolant Heater

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



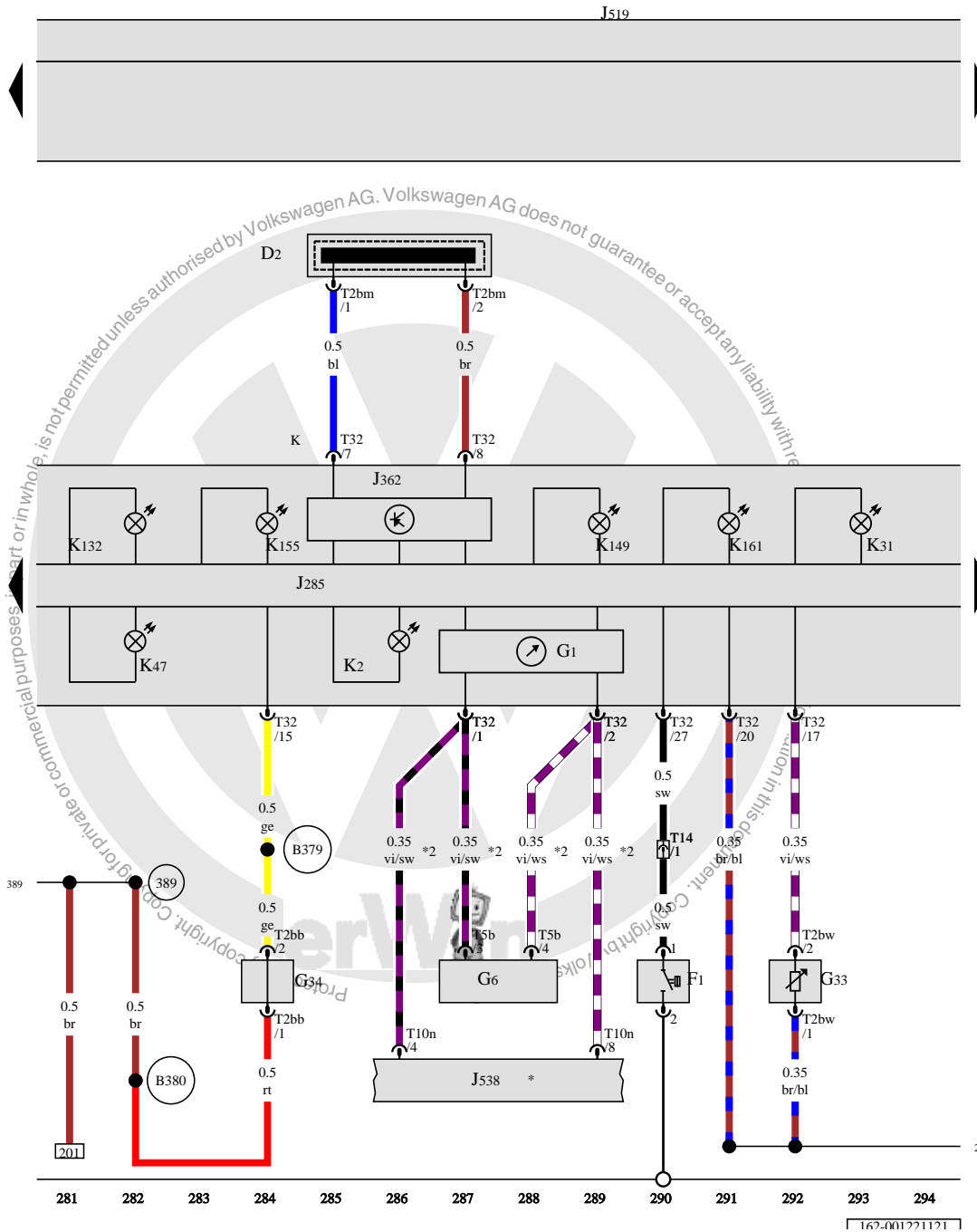
Parking Brake Indicator Lamp Switch, Brake Fluid Level Warning Switch, Heater Control Module, Vehicle Electrical System Control Module, Instrument Cluster, Fresh/Recirculated Air Door Motor

- E16 Heater/Heat Output Switch
- F9 Parking Brake Indicator Lamp Switch
- F34 Brake Fluid Level Warning Switch
- G143 Recirculation Door Motor Position Sensor
- J162 Heater Control Module
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K75 Airbag Indicator Lamp
- K94 Right Turn Signal Indicator Lamp
- K169 Shift Lock Indicator Lamp
- L16 Fresh Air Control Illumination Bulb
- T2ap 2-Pin Connector
- T2w 2-Pin Connector
- T6s 6-Pin Connector
- T10a 10-Pin Connector
- T20c 20-Pin Connector
- T32 32-Pin Connector
- V154 Fresh/Recirculated Air Door Motor

- 132 Ground Connection 3 (in Engine/Motor Compartment Wiring Harness)
- 389 Ground Connection 24 (in Main Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- L78 Connection 1 (in Fresh Air Blower Wiring Harness)

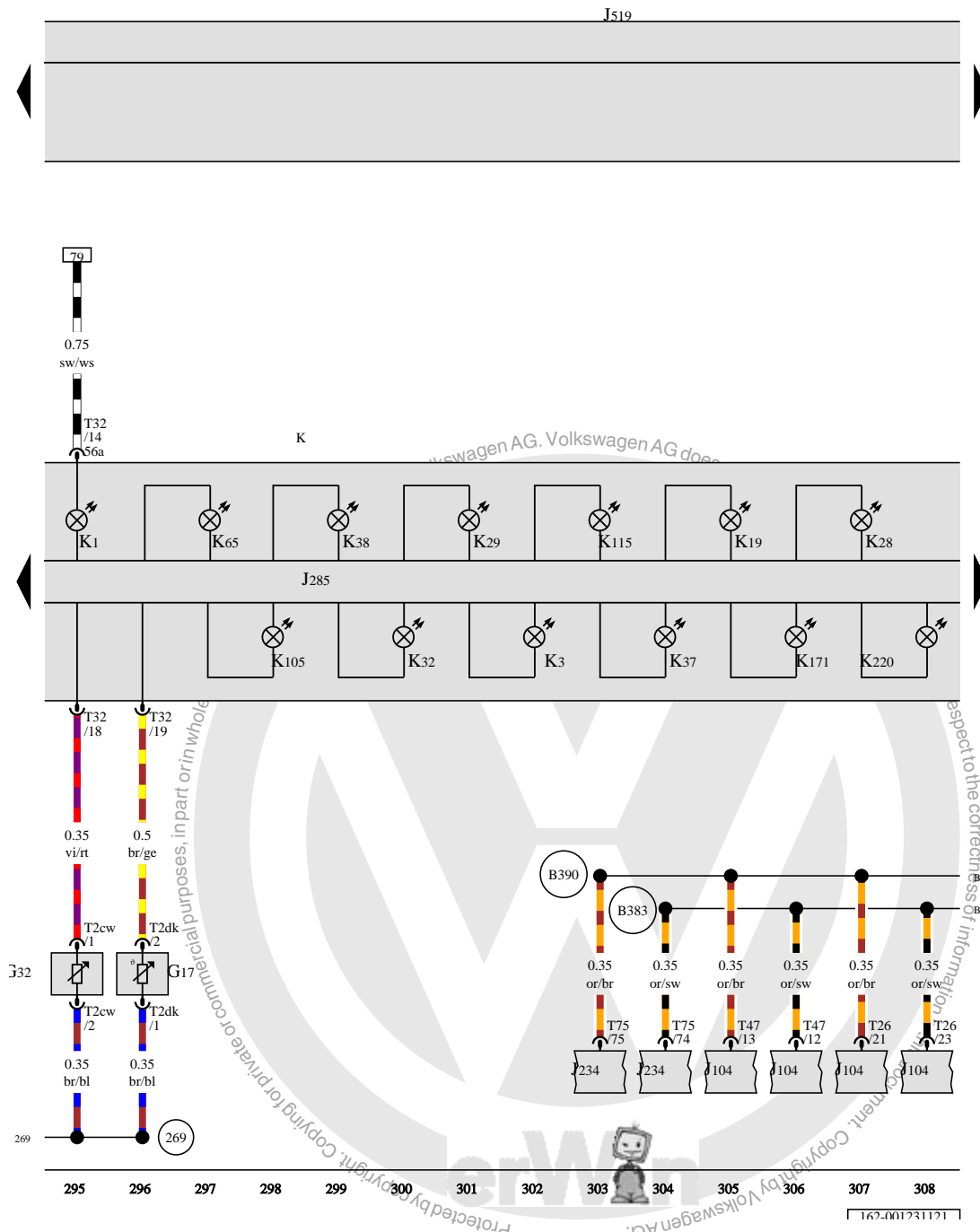
- * Omitted as a Running Change
- *2 Only for Vehicles with Auxiliary Coolant Heater
- *3 The Color of the Wires Depends on Vehicle Equipment

ws = white
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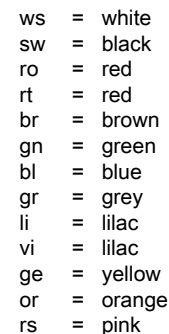
Anti-Theft Immobilizer Reader Coil, Oil Pressure Switch, Windshield Washer Fluid Level Sensor, Left Front Brake Pad Wear Sensor, Anti-Theft Immobilizer Control Module, Vehicle Electrical System Control Module, Instrument Cluster

- D2 Anti-Theft Immobilizer Reader Coil
- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G6 Transfer Fuel Pump
- G33 Windshield Washer Fluid Level Sensor
- G34 Left Front Brake Pad Wear Sensor
- J285 Instrument Cluster Control Module
- J362 Anti-Theft Immobilizer Control Module
- J519 Vehicle Electrical System Control Module
- J538 Fuel Pump Control Module
- K Instrument Cluster
- K2 Generator Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K47 ABS Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- K149 Engine Electronics Indicator Lamp
- K155 ASR/ESP Indicator Lamp
- K161 Electromechanical Power Steering Indicator Lamp
- T2bb 2-Pin Connector
- T2bm 2-Pin Connector
- T2bw 2-Pin Connector
- T5b 5-Pin Connector
- T10n 10-Pin Connector
- T14 14-Pin Connector
- T32 32-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 389 Ground Connection 24 (in Main Wiring Harness)
- B379 Brake Wear Indicator Connection 1 (in Main Wiring Harness)
- B380 Brake Wear Indicator Connection 2 (in Main Wiring Harness)
- * Refer to Applicable Engine Wiring Diagram
- *2 Depending on Equipment



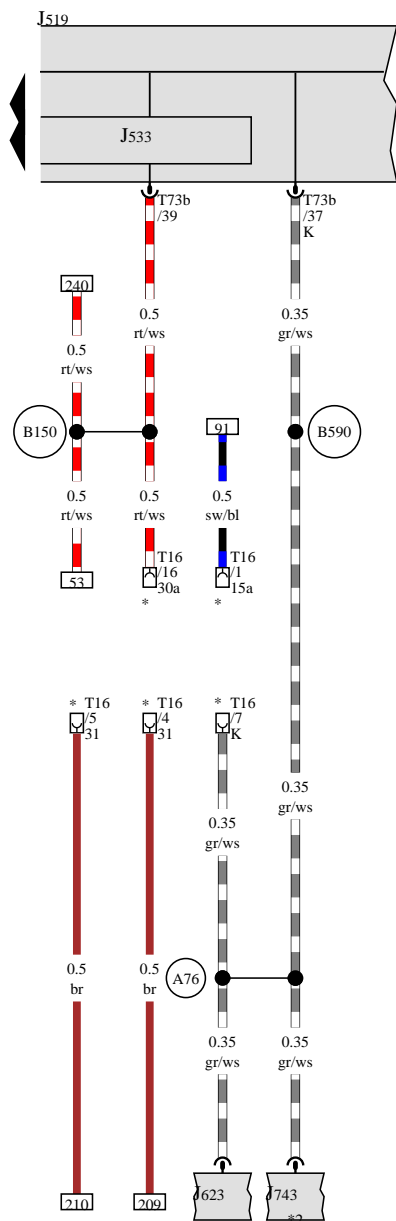
Outside Air Temperature Sensor, Engine Coolant Level Sensor, Vehicle Electrical System Control Module, Instrument Cluster

- G17 Outside Air Temperature Sensor
- G32 Engine Coolant Level Sensor
- J104 ABS Control Module
- J234 Airbag Control Module
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K1 High Beam Indicator Lamp
- K3 Oil Pressure Indicator Lamp
- K19 Seat Belt Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K29 Glow Plug Indicator Lamp
- K32 Brake Pad Wear Indicator Lamp
- K37 Windshield Washer Fluid Level Indicator Lamp
- K38 Oil Level Indicator Lamp
- K65 Indicator Lamp for Left Turn Signal
- K105 Low Fuel Level Indicator Lamp
- K115 Anti-Theft Immobilizer System Indicator Lamp
- K171 Hood -Open- Indicator Lamp
- K220 Tire Pressure Monitoring Display Indicator Lamp
- T2cw 2-Pin Connector
- T2dk 2-Pin Connector
- T26 26-Pin Connector
- T32 32-Pin Connector
- T47 47-Pin Connector
- T75 75-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)



| | |
|------|--|
| J234 | Airbag Control Module |
| J285 | Instrument Cluster Control Module |
| J503 | Radio/Navigation Display Unit Control Module |
| J519 | Vehicle Electrical System Control Module |
| J533 | Data Bus on Board Diagnostic Interface |
| K | Instrument Cluster |
| K83 | Malfunction Indicator Lamp |
| K118 | Brake System Indicator Lamp |
| K166 | Door Ajar Indicator Lamp |
| K170 | Lamp Failure Indicator Lamp |
| K201 | Fuel Filler Door Lock Indicator Lamp |
| K205 | Daytime Running Lamp Indicator Lamp |
| T16 | 16-Pin Connector |
| T16d | 16-Pin Connector |
| T32 | 32-Pin Connector |
| T73b | 73-Pin Connector |
| T75 | 75-Pin Connector |

- | | |
|--|---|
| <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin-bottom: 10px;">B383</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin-bottom: 10px;">B390</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin-bottom: 10px;">B397</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">B406</div> | <p>Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)</p> <p>Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)</p> <p>Comfort System CAN Bus High Connection 1 (in Main Wiring Harness)</p> <p>Comfort System CAN Bus Low Connection 1 (in Main Wiring Harness)</p> |
| <p>* *2</p> | <p>Diagnostic Connector For USA Only</p> |



Vehicle Electrical System Control Module

- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine/Motor Control Module
- J743 Dual-Clutch Transmission Mechatronic
- T16 16-Pin Connector
- T73b 73-Pin Connector

A76 Ks-Diagnostic Lead Connection (in Instrument Panel Wiring Harness)

B150 Positive Connection 2 (30a) (in Interior Wiring Harness)

B590 KS-Diagnostic Cable Connection (in Interior Wiring Harness)

- * Diagnostic Connector
- *2 For Vehicles with Automatic Transmission

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
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 or = orange
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323 324 325 326 327 328 329 330 331 332 333 334 335 336

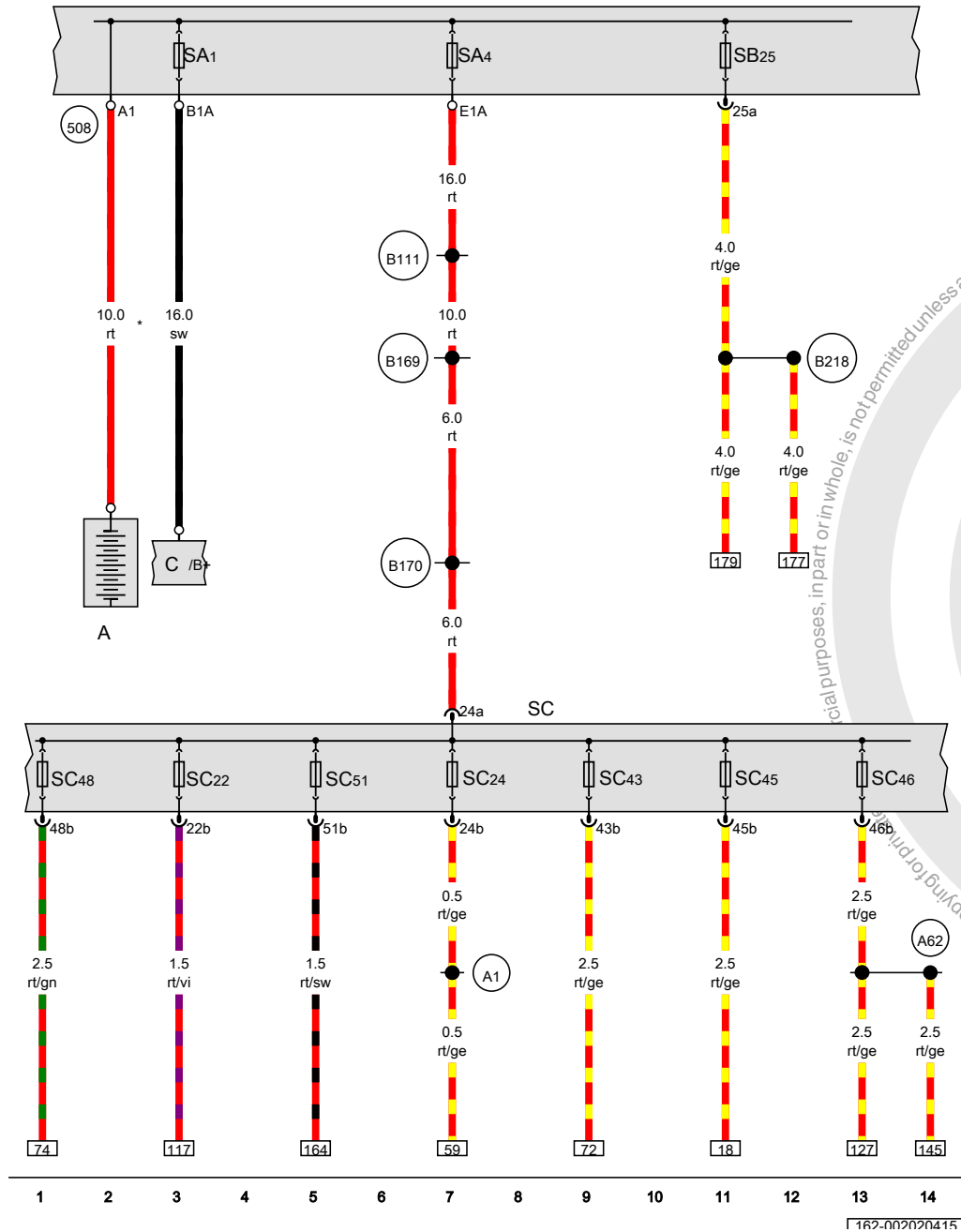
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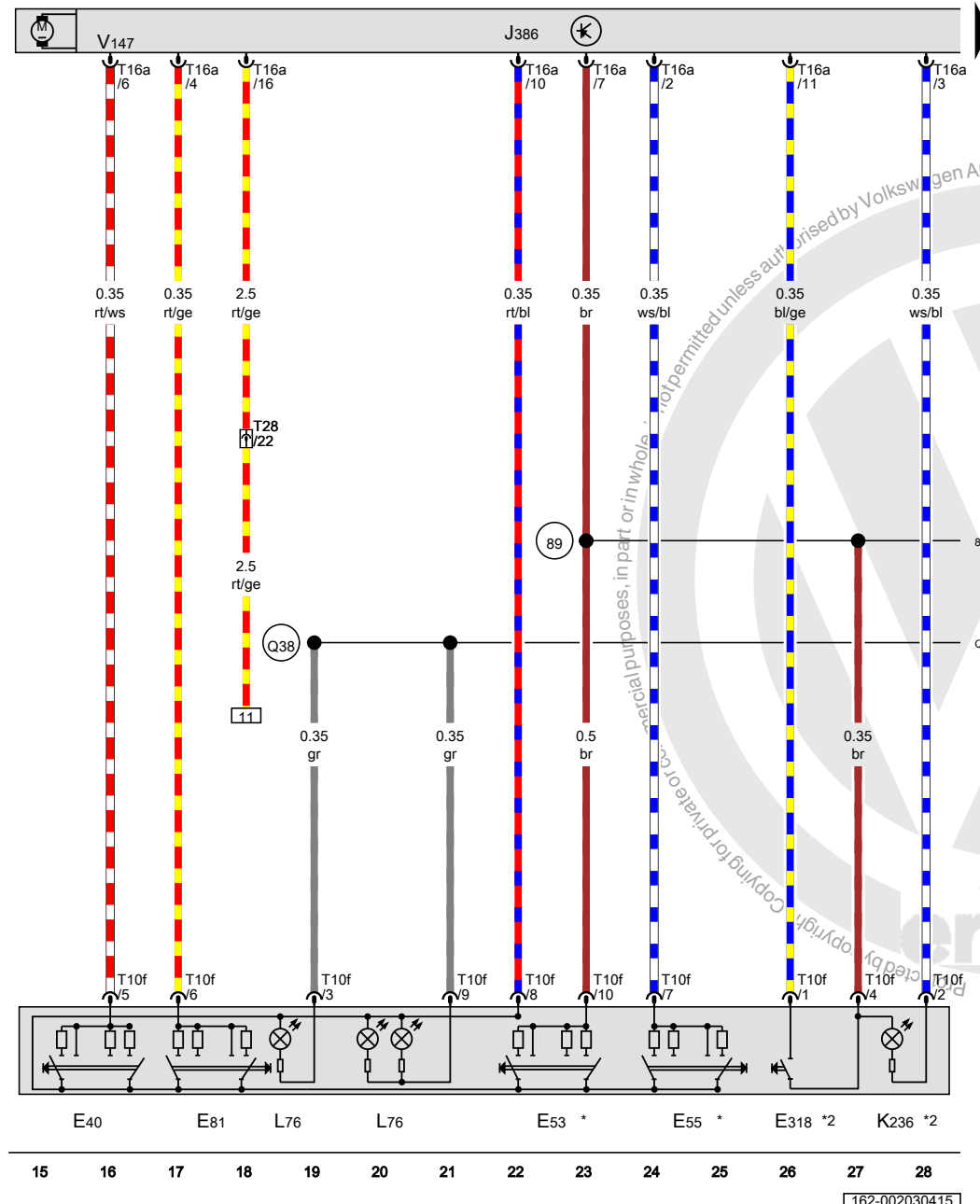
Convenience system , (AW0)

from April 2010



**Battery, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A),
Fuse 25 (on fuse panel B), Fuse panel C**

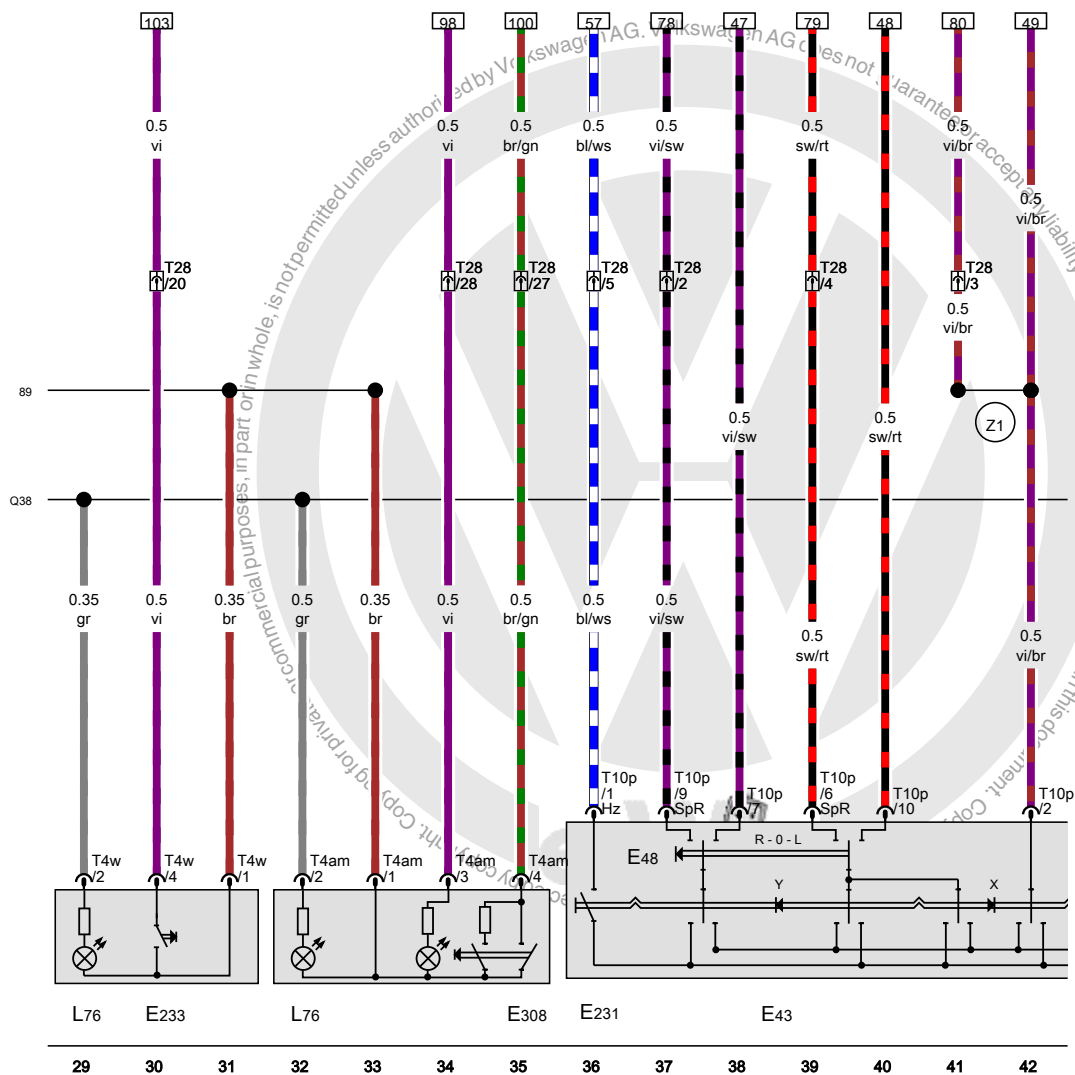
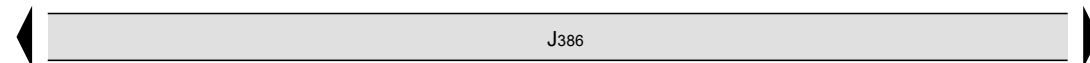




Left front window regulator switch, Left rear window regulator switch in driver door, Right rear window regulator switch in driver door, Right front power window switch in driver door, Child safety lock button, Driver door control module

- E40 Left front window regulator switch
- E53 Left rear window regulator switch in driver door
- E55 Right rear window regulator switch in driver door
- E81 Right front power window switch in driver door
- E318 Child safety lock button
- J386 Driver door control module
- K236 Child safety lock -activated- indicator lamp
- L76 Push button illumination bulb
- T10f 10-pin connector
- T16a 16-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- V147 Driver window regulator motor
- 89 Ground connection 1 (in power window wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- * Only for vehicles with front and rear power windows
- *2 Only for vehicles with child safety lock

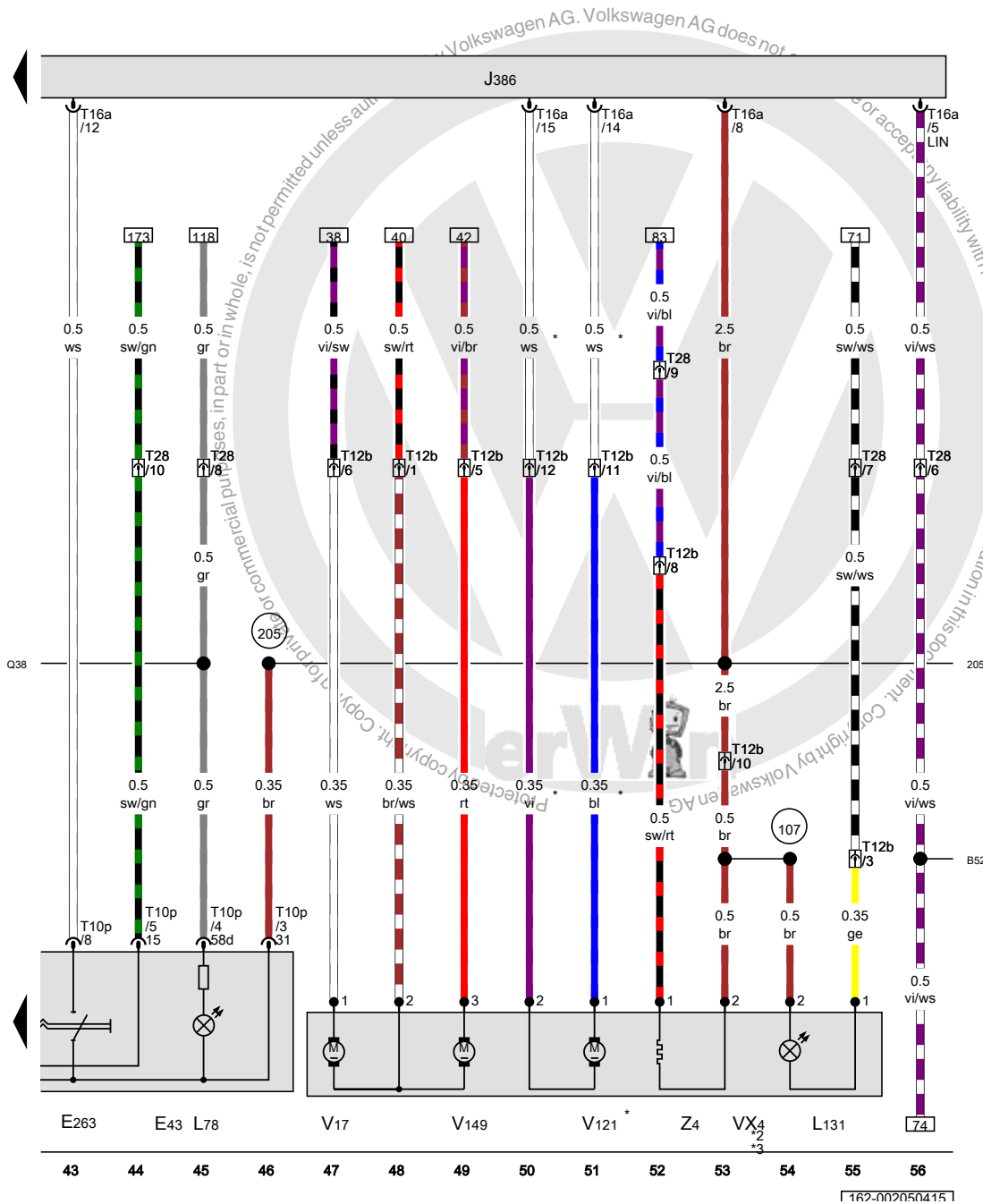
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Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Rear lid remote release button, Driver interior locking button, Driver door control module, Push button illumination bulb

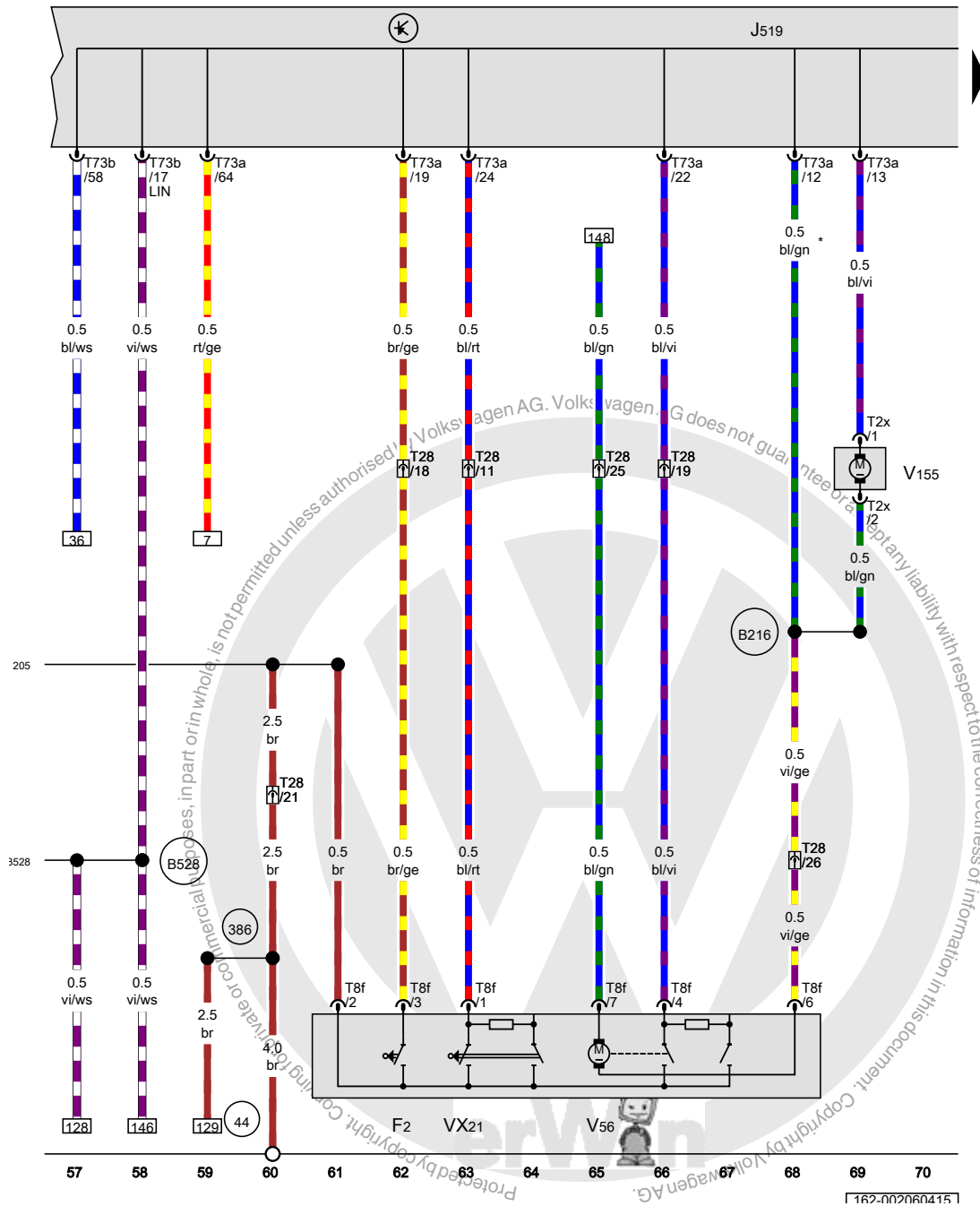
- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E231 Exterior rearview mirror heating switch
- E233 Rear lid remote release button
- E308 Driver interior locking button
- J386 Driver door control module
- L76 Push button illumination bulb
- T4am 4-pin connector
- T4w 4-pin connector
- T10p 10-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- 89 Ground connection 1 (in power window wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- Z1 Connection 1 (in power heated mirror wiring harness)

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Mirror adjusting switch, Mirror folding switch, Driver door control module, Mirror adjustment switch illumination bulb, Driver exterior rearview mirror, Driver mirror adjustment motor 2, Driver exterior rearview mirror folding motor, Driver mirror adjustment motor

- E43 Mirror adjusting switch
- E263 Mirror folding switch
- J386 Driver door control module
- L78 Mirror adjustment switch illumination bulb
- L131 Driver exterior rearview mirror turn signal bulb
- T10p 10-pin connector
- T12b 12-pin connector, in the driver door wiring harness
- T16a 16-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- VX4 Driver exterior rearview mirror
- V17 Driver mirror adjustment motor 2
- V121 Driver exterior rearview mirror folding motor
- V149 Driver mirror adjustment motor
- Z4 Heated driver exterior rearview mirror
- 107 Ground connection (in exterior mirror wiring harness)
- 205 Ground connection (in driver door wiring harness)
- B528 LIN bus connection 1 (in main wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- * Omitted as a running change
- *2 pre-wired component
- *3 Depending on equipment

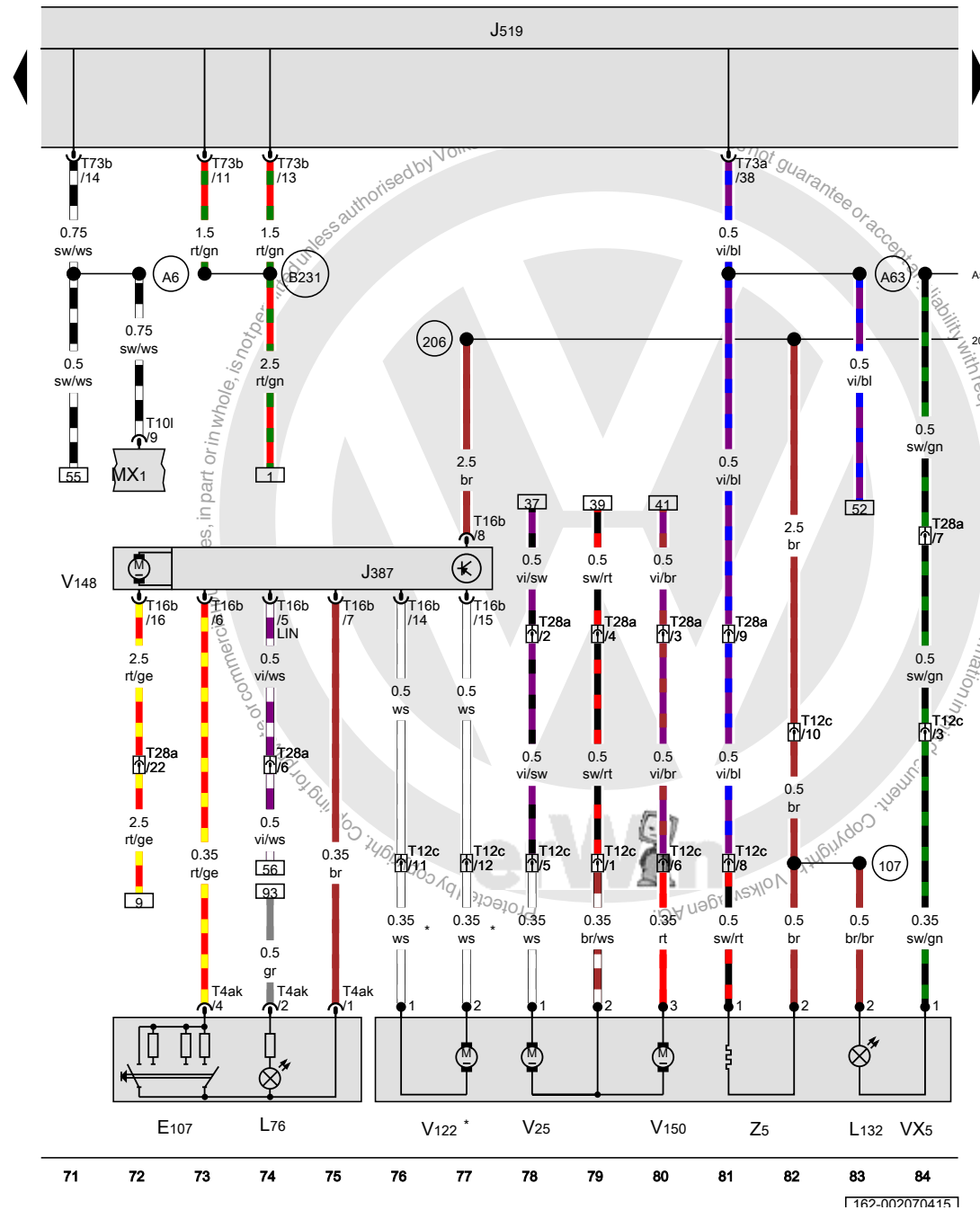


Driver door contact switch, Vehicle electrical control module system, Driver door lock unit, Driver door central locking system motor, Fuel filler door unlock motor

- F2 Driver door contact switch
- J519 Vehicle electrical control module system
- T2x Double connector
- T8f 8-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T73a 73-pin connector
- T73b 73-pin connector
- VX21 Driver door lock unit
- V56 Driver door central locking system motor
- V155 Fuel filler door unlock motor

- 44 Ground connection on A-pillar, lower left
- 205 Ground connection (in driver door wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- B216 Central locking connection 3 (in interior wiring harness)
- B528 LIN bus connection 1 (in main wiring harness)

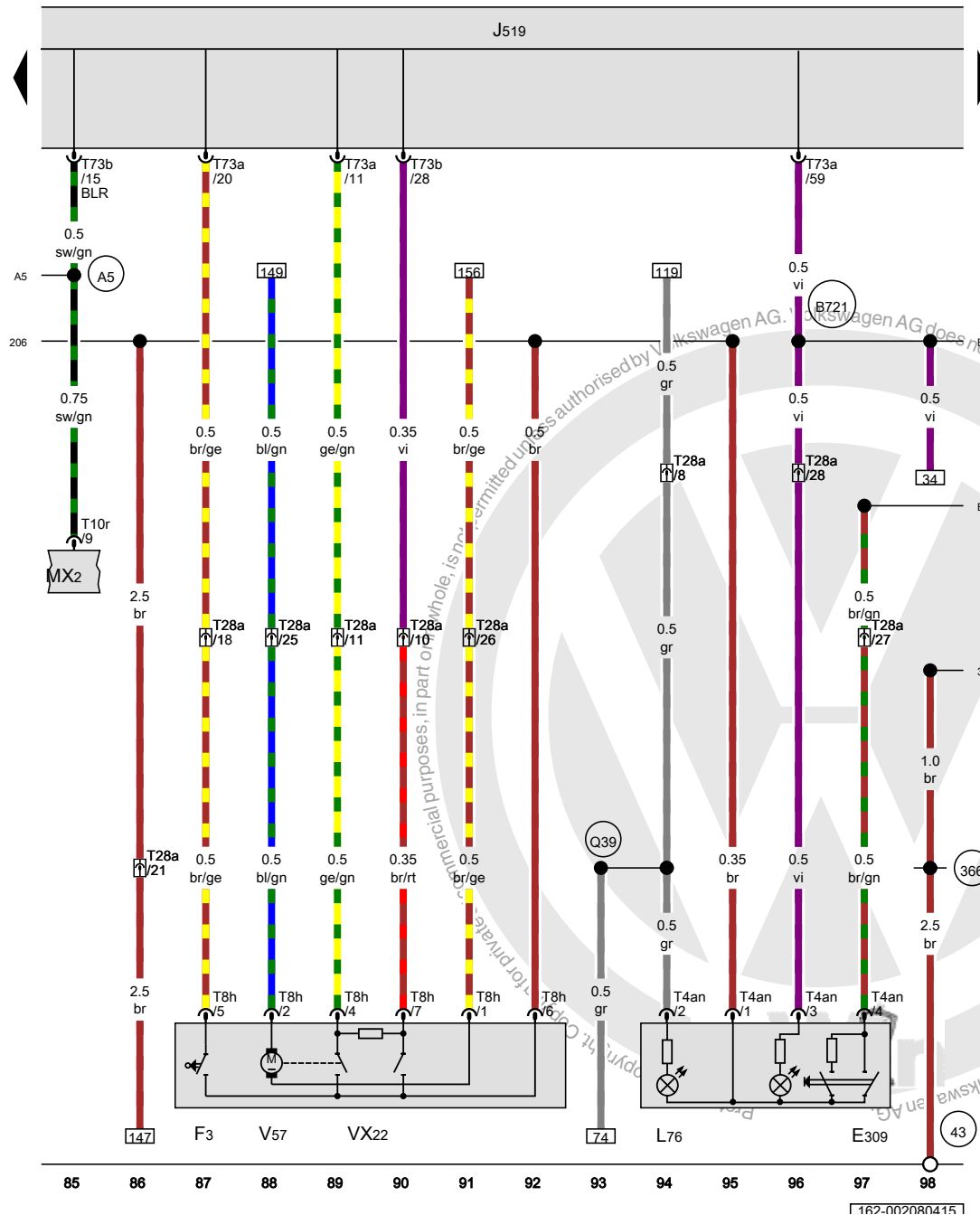
* The color of the wires depends on vehicle equipment



Front passenger door window regulator switch, Front passenger door control module, Vehicle electrical control module system, Front passenger exterior rearview mirror turn signal bulb, Front passenger exterior rearview mirror, Front passenger side mirror adjustment motor 2, Front passenger exterior rearview mirror folding motor, Front passenger window regulator motor, Front passenger mirror adjustment motor

- E107 Front passenger door window regulator switch
- J387 Front passenger door control module
- J519 Vehicle electrical control module system
- L76 Push button illumination bulb
- L132 Front passenger exterior rearview mirror turn signal bulb
- MX1 Left front headlamp
- T4ak 4-pin connector
- T10I 10-pin connector
- T12c 12-pin connector, in the front passenger door
- T16b 16-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T73a 73-pin connector
- T73b 73-pin connector
- VX5 Front passenger exterior rearview mirror
- V25 Front passenger side mirror adjustment motor 2
- V122 Front passenger exterior rearview mirror folding motor
- V148 Front passenger window regulator motor
- V150 Front passenger mirror adjustment motor
- Z5 Heated front passenger exterior rearview mirror
- 107 Ground connection (in exterior mirror wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- A6 Left turn signal positive connection (in instrument panel wiring harness)
- A63 Mirror adjustment/heating connection (in instrument panel wiring harness)
- B231 Positive connection 5 (30a) (in interior wiring harness)
- * Omitted as a running change

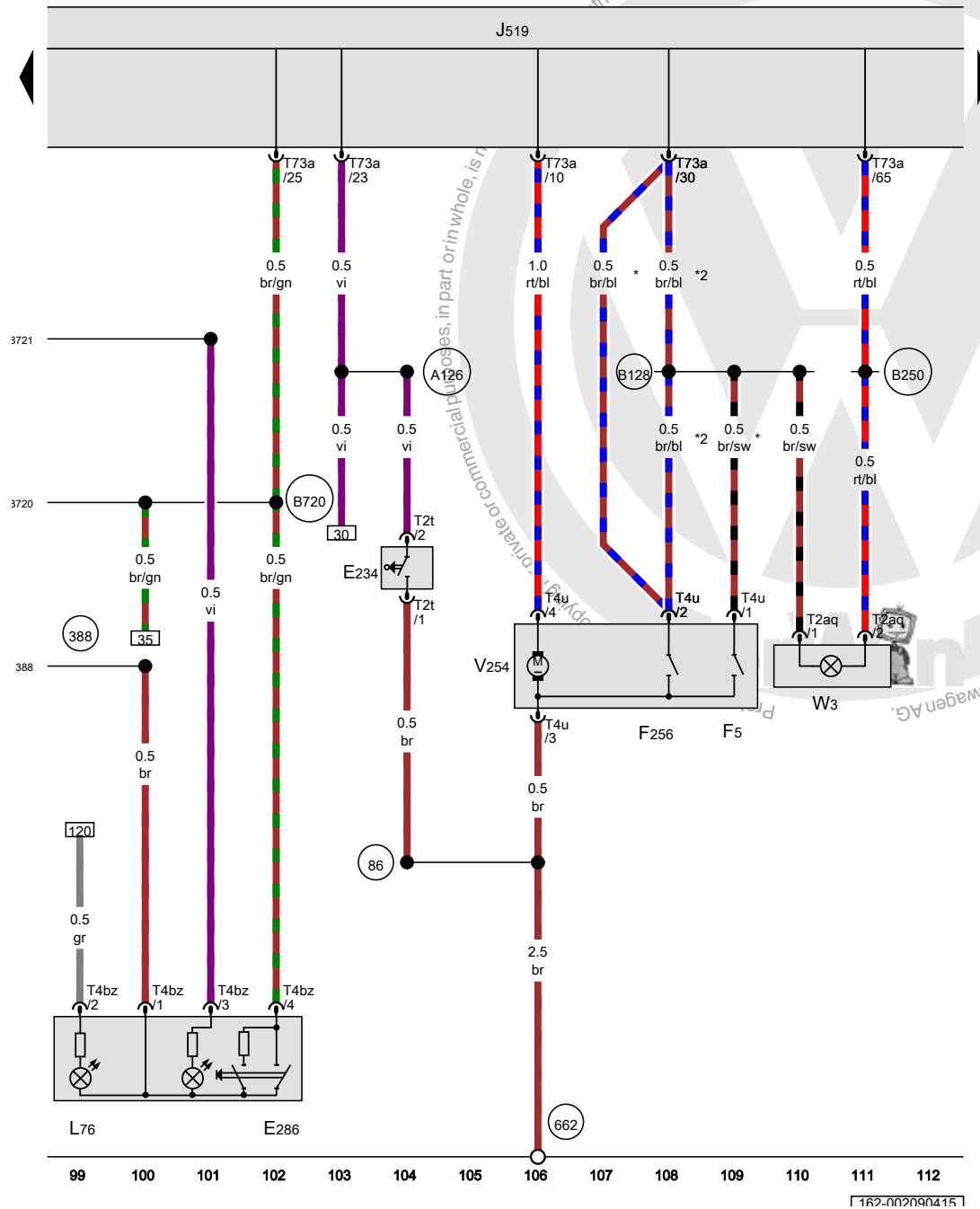
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Front passenger interior locking button, Front passenger door contact switch, Vehicle electrical control module system, Front passenger door lock unit, Front passenger door central locking system motor

- E309 Front passenger interior locking button
 - F3 Front passenger door contact switch
 - J519 Vehicle electrical control module system
 - L76 Push button illumination bulb
 - MX2 Right front headlamp
 - T4an 4-pin connector
 - T8h 8-pin connector
 - T10r 10-pin connector
 - T28a 28-pin connector, Right A-pillar, bottom
 - T73a 73-pin connector
 - T73b 73-pin connector
 - VX22 Front passenger door lock unit
 - V57 Front passenger door central locking system motor
- 43 Ground connection on A-pillar, lower right
 - 206 Ground connection (in front passenger door wiring harness)
 - 366 Ground connection 1 (in main wiring harness)
 - 388 Ground connection 23 (in main wiring harness)
 - A5 Right turn signal positive connection (in instrument panel wiring harness)
 - B720 Central locking connection 1 (in main wiring harness)
 - B721 Central locking connection 2 (in main wiring harness)
 - Q39 Positive connection 2 (58b) (in power window wiring harness)

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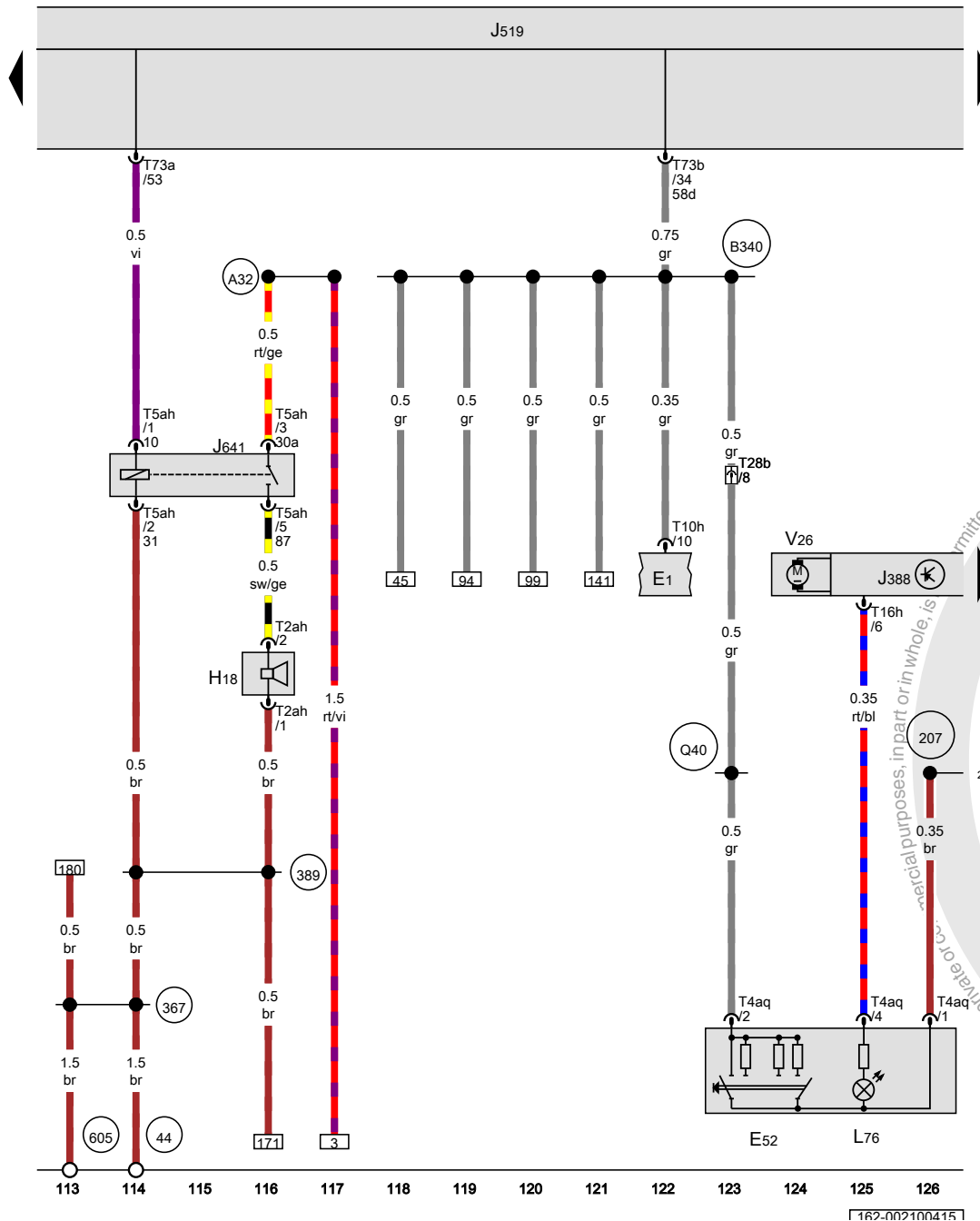


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Release button in rear lid handle, Rear center interior locking switch, Luggage compartment lamp switch, Rear lid lock unit, Vehicle electrical control module system, Rear lid opening motor, Luggage compartment lamp

- E234 Release button in rear lid handle
- E286 Rear center interior locking switch
- F5 Luggage compartment lamp switch
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- L76 Push button illumination bulb
- T2aq Double connector
- T2t Double connector
- T4bz 4-pin connector
- T4u 4-pin connector
- T73a 73-pin connector
- V254 Rear lid opening motor
- W3 Luggage compartment lamp
- 86 Ground connection 1 (in rear wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 662 Ground connection in left rear side panel
- A126 Rear lid contact switch connection (in instrument panel wiring harness)
- B128 Luggage compartment lamp connection (in interior wiring harness)
- B250 Positive connection (in roof wiring harness)
- B720 Central locking connection 1 (in main wiring harness)
- B721 Central locking connection 2 (in main wiring harness)

* Omitted as a running change
 *2 Running change

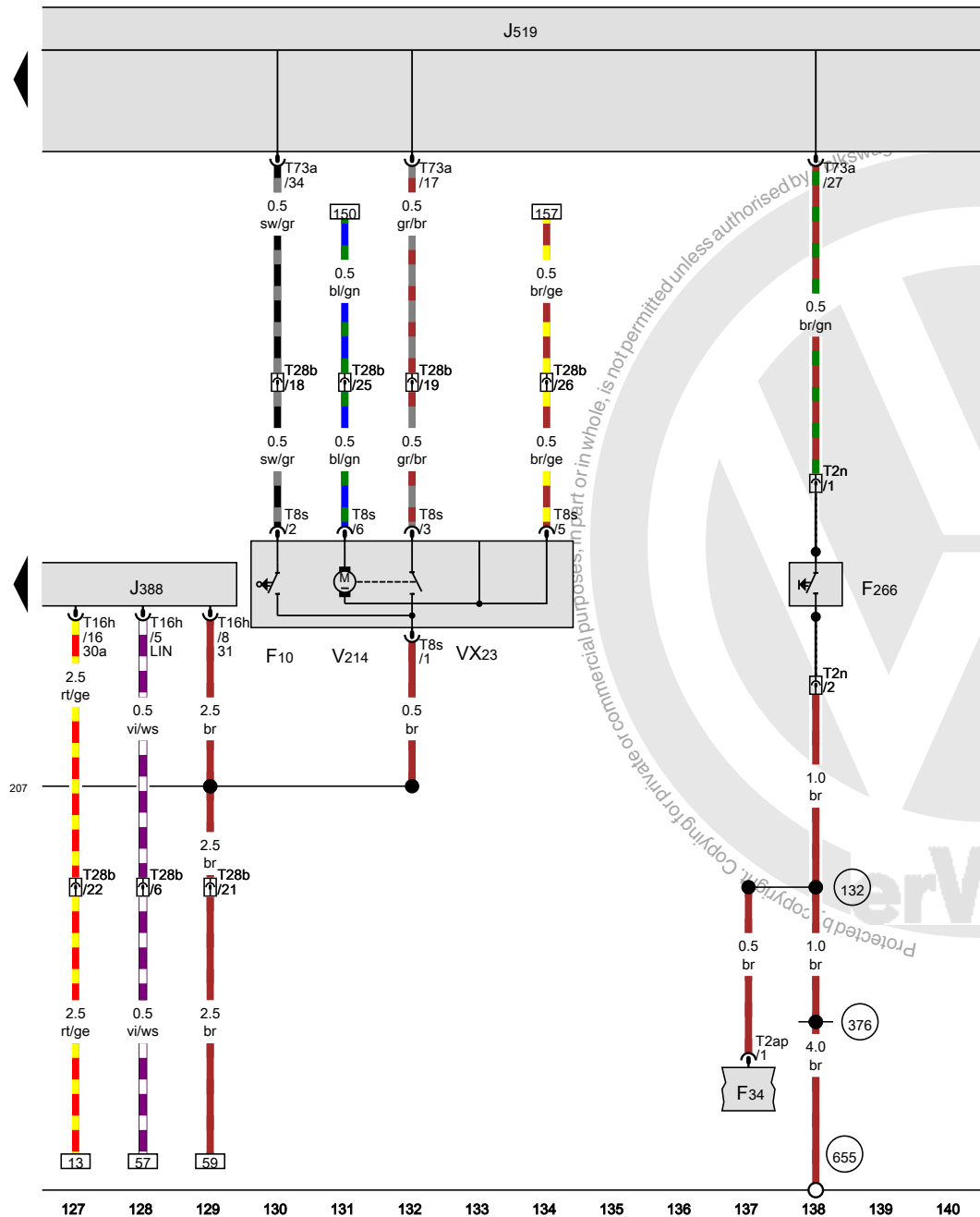


Left rear power window switch in left rear door, Left rear door control module, Vehicle electrical control module system, Left rear window regulator motor

- E1 Light switch
- E52 Left rear power window switch in left rear door
- H18 Alarm system horn
- J388 Left rear door control module
- J519 Vehicle electrical control module system
- J641 Alarm horn relay
- L76 Push button illumination bulb
- T2ah Double connector
- T4aq 4-pin connector
- T5ah 5-pin connector
- T10h 10-pin connector
- T16h 16-pin connector
- T28b 28-pin connector, on the left B-pillar
- T73a 73-pin connector
- T73b 73-pin connector
- V26 Left rear window regulator motor

- 44 Ground connection on A-pillar, lower left
- 207 Ground connection (in left rear door wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- A32 Positive connection (30) (in instrument panel wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- Q40 Positive connection 3 (58b) (in power window wiring harness)

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Left rear door contact switch, Engine hood contact switch, Left rear door control module, Vehicle electrical control module system, Left rear door lock unit, Left rear central locking -lock- motor

- F10 Left rear door contact switch
- F34 Brake fluid level warning switch
- F266 Engine hood contact switch
- J388 Left rear door control module
- J519 Vehicle electrical control module system
- T2ap Double connector
- T2n Double connector
- T8s 8-pin connector
- T16h 16-pin connector
- T28b 28-pin connector, on the left B-pillar
- T73a 73-pin connector
- VX23 Left rear door lock unit
- V214 Left rear central locking -lock- motor

- 132 Ground connection 3 (in engine compartment wiring harness)
- 207 Ground connection (in left rear door wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp

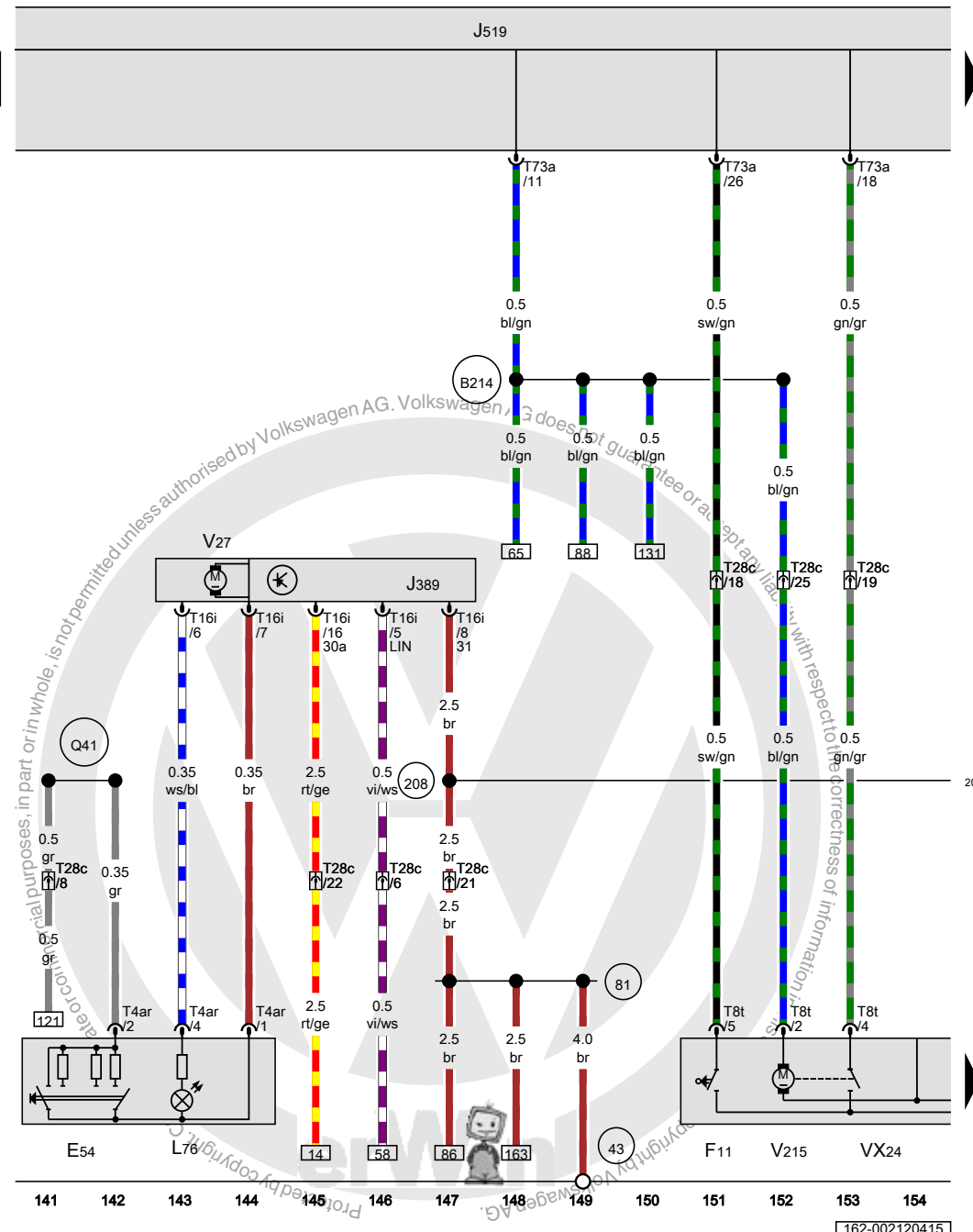
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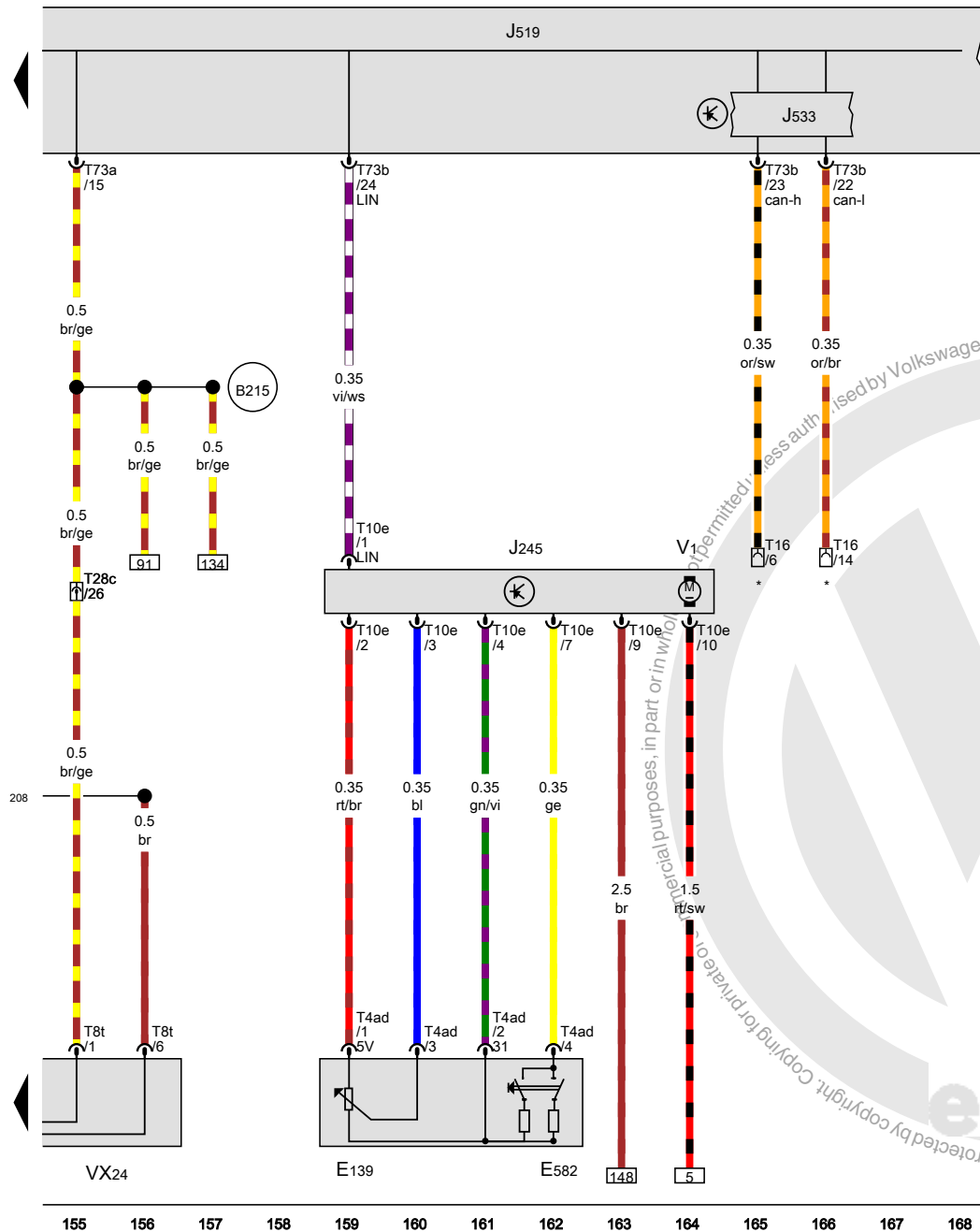
Right rear window switch in right rear door, Right rear door contact switch, Right rear door control module, Vehicle electrical control module system, Right rear door lock unit, Right rear window regulator motor, Right rear central locking -lock- motor

- E54 Right rear window switch in right rear door
- F11 Right rear door contact switch
- J389 Right rear door control module
- J519 Vehicle electrical control module system
- L76 Push button illumination bulb
- T4ar 4-pin connector
- T8t 8-pin connector
- T16i 16-pin connector
- T28c 28-pin connector, on the right B-pillar
- T73a 73-pin connector
- VX24 Right rear door lock unit
- V27 Right rear window regulator motor
- V215 Right rear central locking -lock- motor

- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 208 Ground connection (in right rear door wiring harness)
- B214 Central locking connection 1 (in interior wiring harness)
- Q41 Positive connection 4 (58b) (in power window wiring harness)

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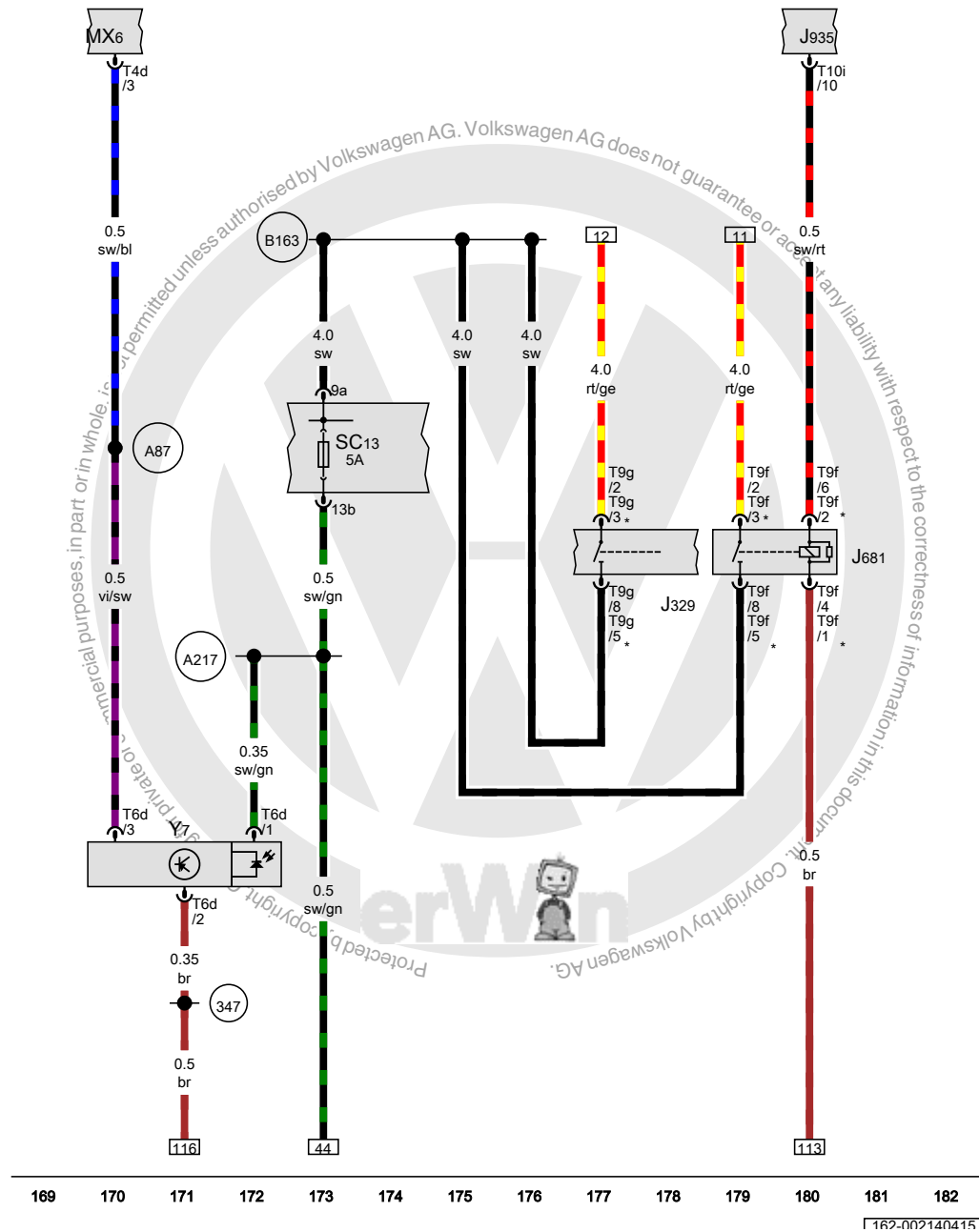
Sunroof adjustment regulator, Sunroof tilt button 1, Power sunroof control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Sunroof motor, Right rear door lock unit

- E139 Sunroof adjustment regulator
- E582 Sunroof tilt button 1
- J245 Power sunroof control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- T4ad 4-pin connector
- T8t 8-pin connector
- T10e 10-pin connector
- T16 16-pin connector
- T28c 28-pin connector, on the right B-pillar
- T73a 73-pin connector
- T73b 73-pin connector
- V1 Sunroof motor
- VX24 Right rear door lock unit

- 208 Ground connection (in right rear door wiring harness)
- B215 Central locking connection 2 (in interior wiring harness)
- * Diagnostic connector

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Terminal 15 power supply relay, Terminal 15 power supply relay 2, Automatic dimming interior rearview mirror



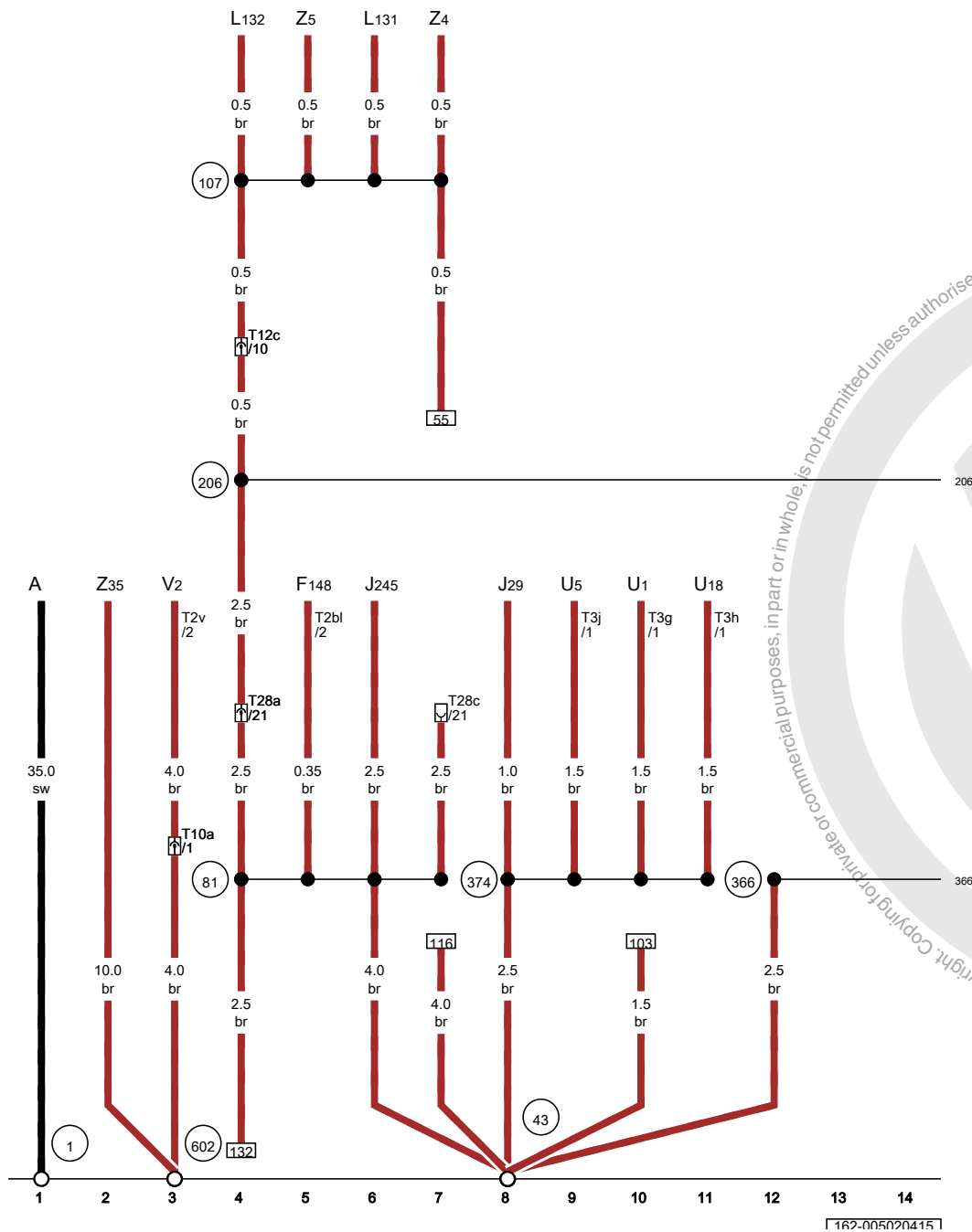
- J329 Terminal 15 power supply relay
- J681 Terminal 15 power supply relay 2
- J935 Converter box
- MX6 Right tail lamp 2
- SC13 Fuse 13 (on fuse panel C)
- T4d 4-pin connector
- T6d 6-pin connector
- T9f 9-pin connector
- T9g 9-pin connector
- T10i 10-pin connector
- Y7 Automatic dimming interior rearview mirror
- (347) Ground connection (in roof wiring harness)
- (A87) Back-up lamp connection (in instrument panel wiring harness)
- (A217) Positive connection 8 (15a) (in instrument panel wiring harness)
- (B163) Positive connection 1 (15) (in interior wiring harness)
- * Running change

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Ground concept

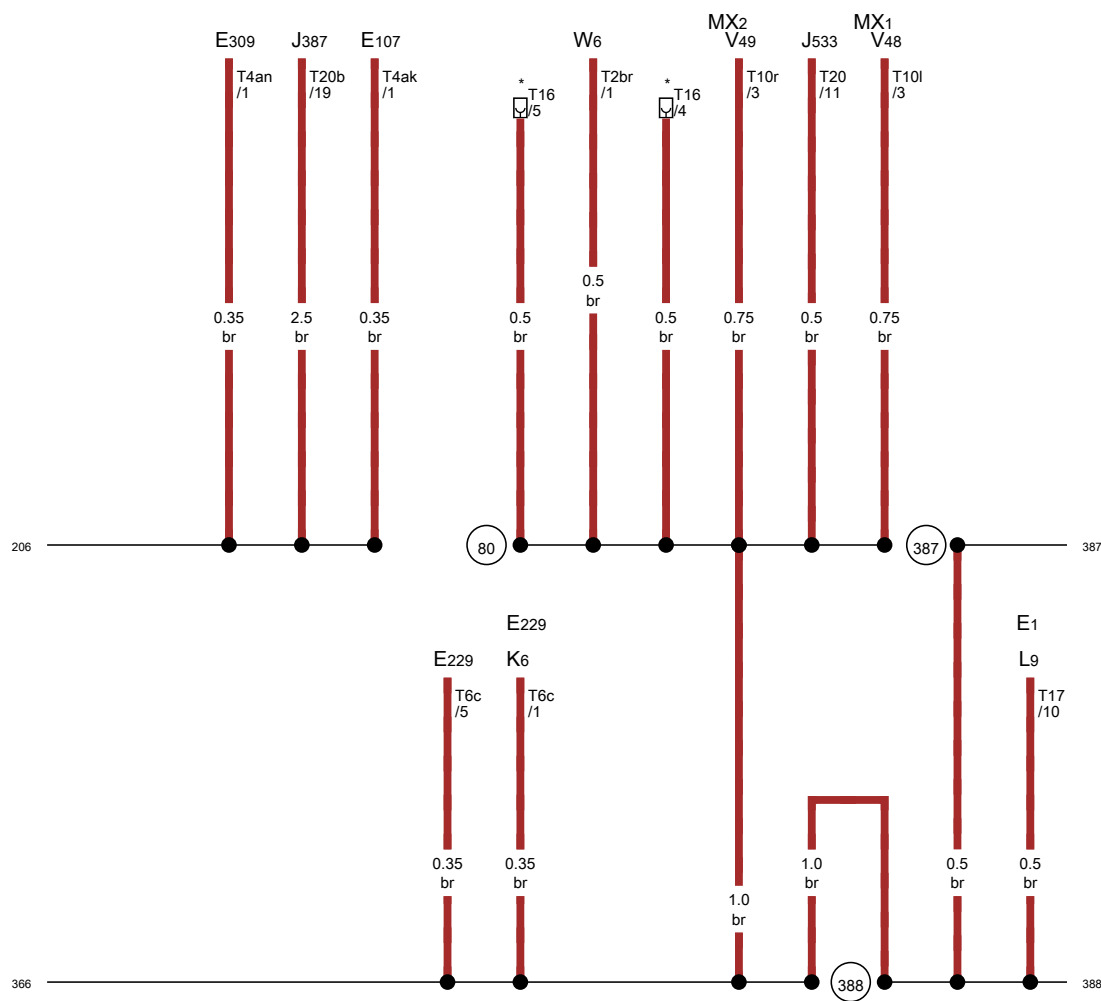
from April 2010





Ground strap, battery to body, Ground connection on A-pillar, lower right, Ground connection 1 (in main wiring harness), Ground connection in left front footwell

- A Battery
- F148 Front passenger vanity mirror lamp contact switch
- J29 Blocking diode
- J245 Power sunroof control module
- L131 Driver exterior rearview mirror turn signal bulb
- L132 Front passenger exterior rearview mirror turn signal bulb
- T2bl Double connector
- T2v Double connector
- T3g 3-pin connector
- T3h 3-pin connector
- T3j 3-pin connector
- T10a 10-pin connector
- T12c 12-pin connector
- T28a 28-pin connector, behind the lower left A-pillar trim
- T28c 28-pin connector
- U1 Cigarette lighter
- U5 12 V socket
- U18 12 V socket 2
- V2 Fresh air blower
- Z4 Heated driver exterior rearview mirror
- Z5 Heated front passenger exterior rearview mirror
- Z35 Auxiliary heater heating element
- 1 Ground strap, battery to body
- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 107 Ground connection (in exterior mirror wiring harness), in the left door, near the exterior rearview mirror
- 206 Ground connection (in front passenger door wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 374 Ground connection 9 (in main wiring harness)
- 602 Ground connection in left front footwell



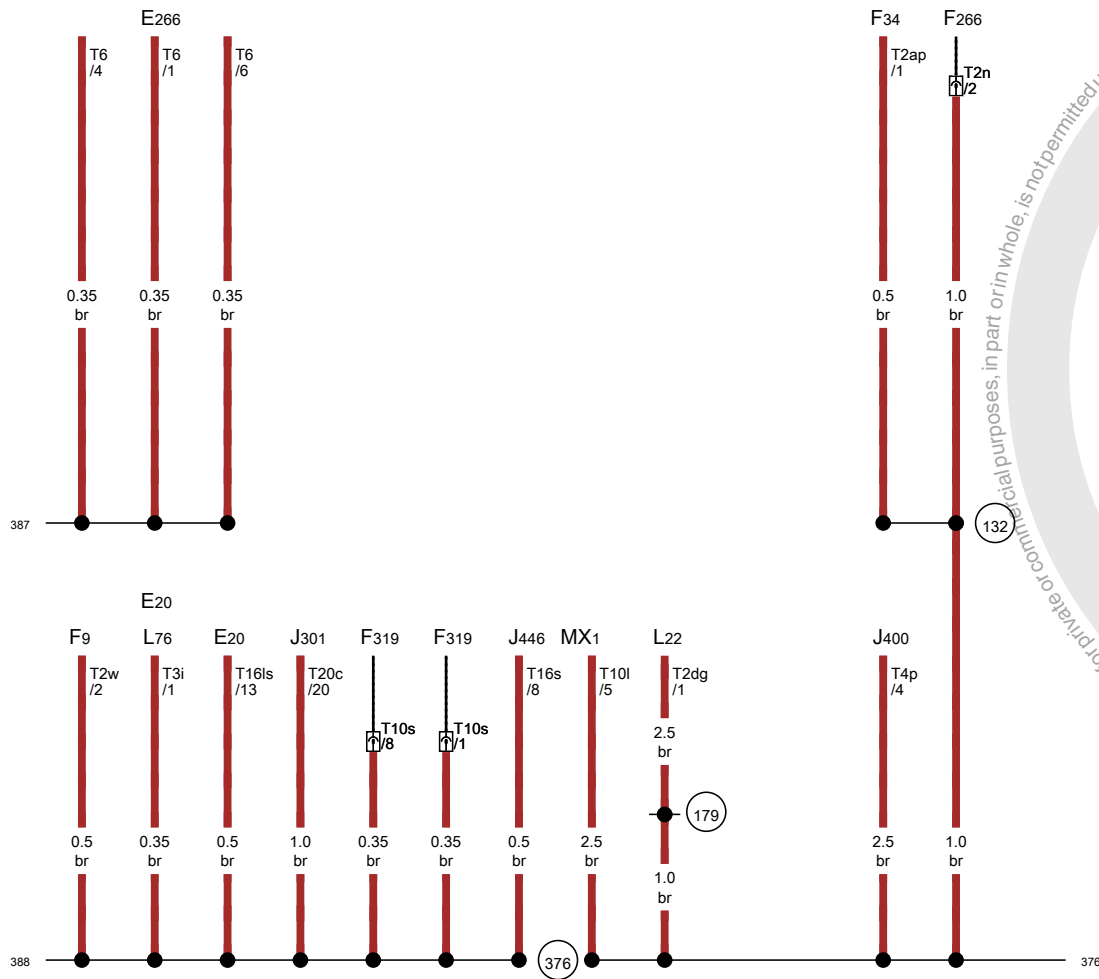
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 sw = black
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Ground connection 1 (in main wiring harness), Ground connection 23 (in main wiring harness)

- E1 Light switch
- E107 Front passenger door window regulator switch
- E229 Emergency flasher button
- E309 Front passenger interior locking button
- J387 Front passenger door control module
- J533 Data bus on board diagnostic interface
- K6 Emergency flasher indicator lamp
- L9 Headlamp switch illumination bulb
- MX1 Left front headlamp
- MX2 Right front headlamp
- T2br Double connector
- T4ak 4-pin connector
- T4an 4-pin connector
- T6c 6-pin connector
- T10l 10-pin connector
- T10r 10-pin connector
- T16 16-pin connector
- T17 17-pin connector
- T20 20-pin connector
- T20b 20-pin connector
- V48 Left headlamp beam adjustment motor
- V49 Right headlamp beam adjustment motor
- W6 Glove compartment lamp

- 80 Ground connection 1 (in instrument cluster wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)

* Diagnostic connector



Ground connection 23 (in main wiring harness)

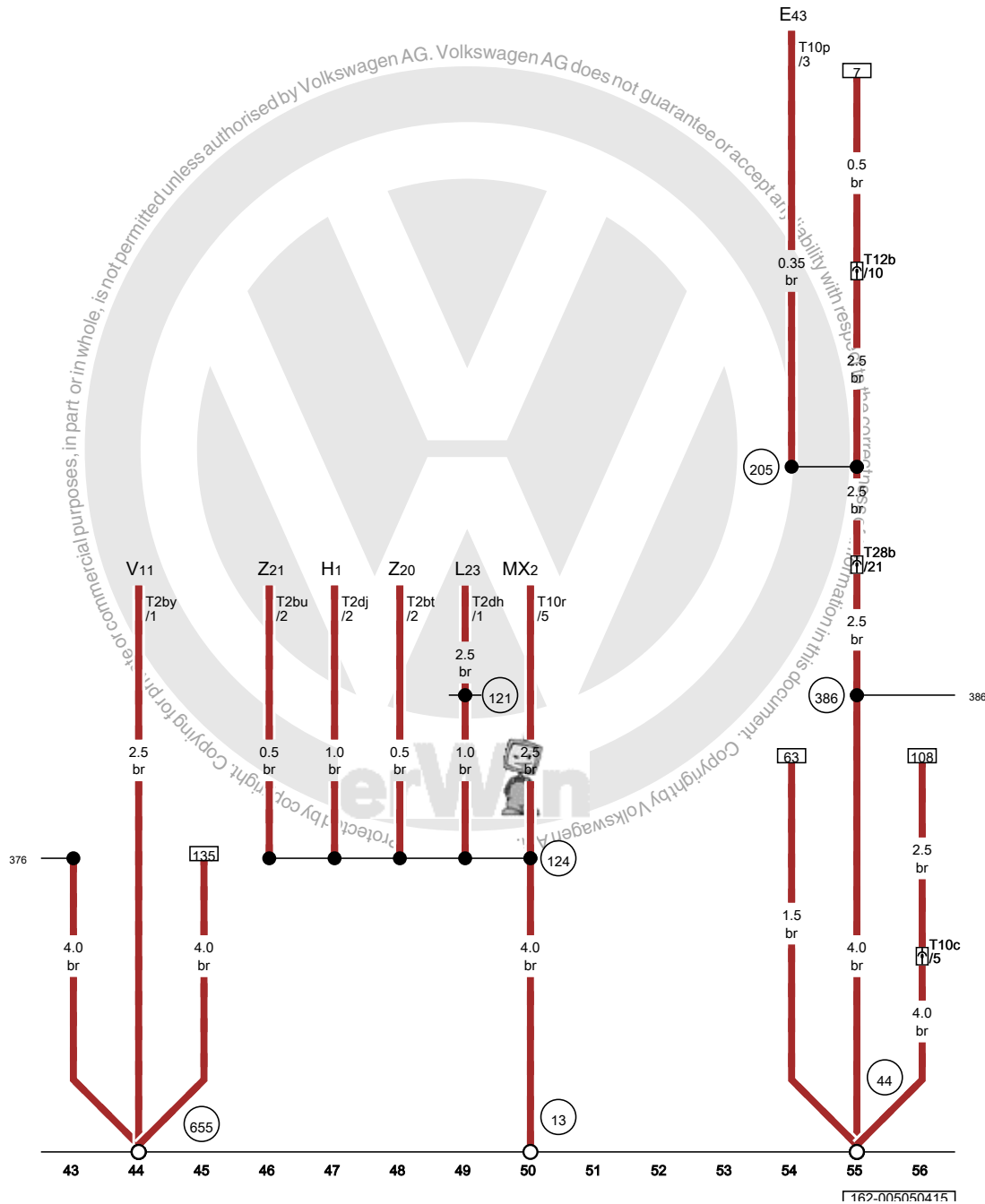
- E20 Instrument panel and switch illumination dimmer switch
- E266 Parking aid button
- F9 Parking brake indicator lamp switch
- F34 Brake fluid level warning switch
- F266 Engine hood contact switch
- F319 Selector lever park position lock switch
- J301 A/C control module
- J400 Wiper motor control module
- J446 Parking aid control module
- L22 Left front fog lamp bulb
- L76 Push button illumination bulb
- MX1 Left front headlamp
- T2ap Double connector
- T2dg Double connector
- T2n Double connector
- T2w Double connector
- T3i 3-pin connector
- T4p 4-pin connector
- T6 6-pin connector
- T10i 10-pin connector
- T10s 10-pin connector
- T16ls 16-pin connector
- T16s 16-pin connector
- T20c 20-pin connector

- 132 Ground connection 3 (in engine compartment wiring harness)
- 179 Ground connection (in left headlamp wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)

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29 30 31 32 33 34 35 36 37 38 39 40 41 42

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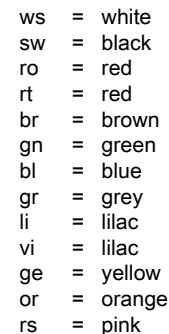


Ground connection in engine compartment, right, Ground connection on A-pillar, lower left, Ground connection on left headlamp

- E43 Mirror adjusting switch
- H1 Signal horn and dual tone horn
- L23 Right front fog lamp bulb
- MX2 Right front headlamp
- T2bt Double connector
- T2bu Double connector
- T2by Double connector
- T2dh Double connector
- T2dj Double connector
- T10c 10-pin connector
- T10p 10-pin connector
- T10r 10-pin connector
- T12b 12-pin connector
- T28b 28-pin connector, on the right B-pillar
- V11 Headlamp washer pump
- Z20 Left washer nozzle heater
- Z21 Right washer nozzle heater

- 13 Ground connection in engine compartment, right
- 44 Ground connection on A-pillar, lower left
- 121 Ground connection 2 (in right front wiring harness)
- 124 Ground connection (in right engine compartment wiring harness)
- 205 Ground connection (in driver door wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- 655 Ground connection on left headlamp

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* only for vehicles with High equipment (AW1)
*2 Only for vehicles with dual tone horn

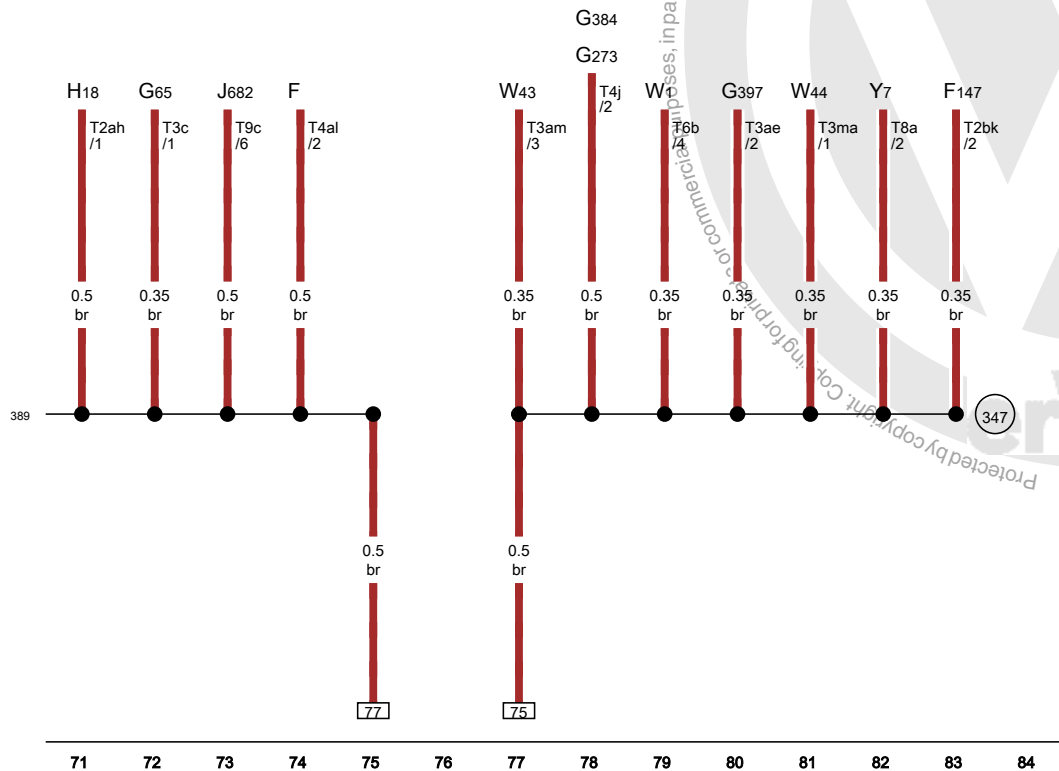
Ground connection (in roof wiring harness), Ground connection 24 (in main wiring harness)

- F Brake lamp switch
- F147 Driver vanity mirror lamp contact switch
- G65 High pressure sensor
- G273 Interior monitoring sensor
- G384 Vehicle inclination sensor
- G397 Rain/light recognition sensor
- H18 Alarm system horn
- J682 Terminal 50 power supply relay
- T2ah Double connector
- T2bk Double connector
- T3ae 3-pin connector
- T3am 3-pin connector
- T3c 3-pin connector
- T3ma 3-pin connector
- T4al 4-pin connector
- T4j 4-pin connector
- T6b 6-pin connector
- T8a 8-pin connector
- T9c 9-pin connector
- W1 Front interior lamp
- W43 Rear interior lamp
- W44 Rear center reading lamp
- Y7 Automatic dimming interior rearview mirror

347 Ground connection (in roof wiring harness)

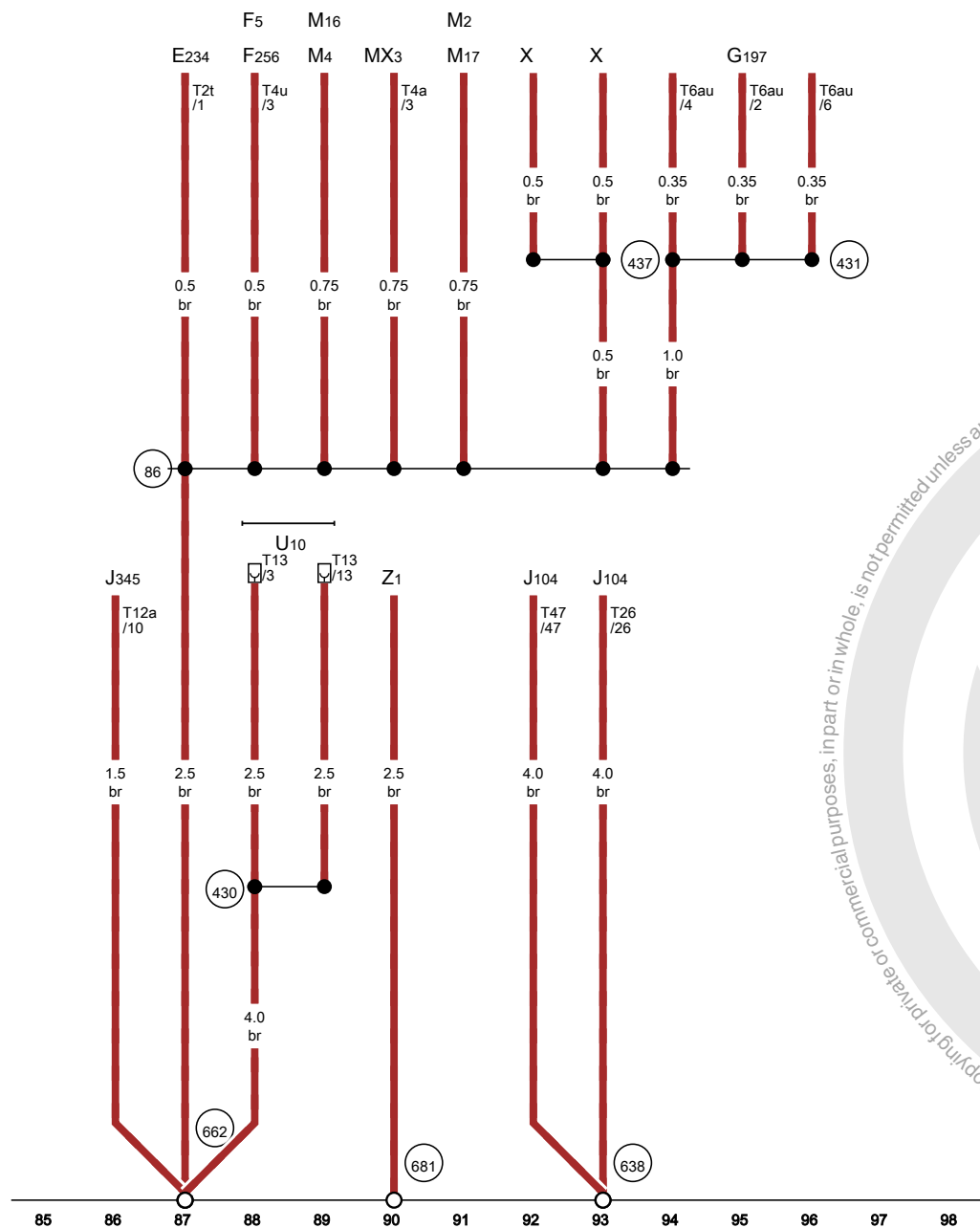
389 Ground connection 24 (in main wiring harness)

* only for vehicles with Low equipment (AW0)



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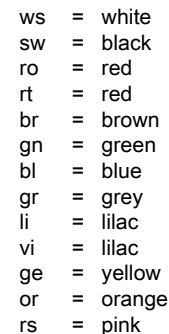
Ground connection on right A-pillar, Ground connection in left rear side panel, Ground connection 1 in right rear side panel



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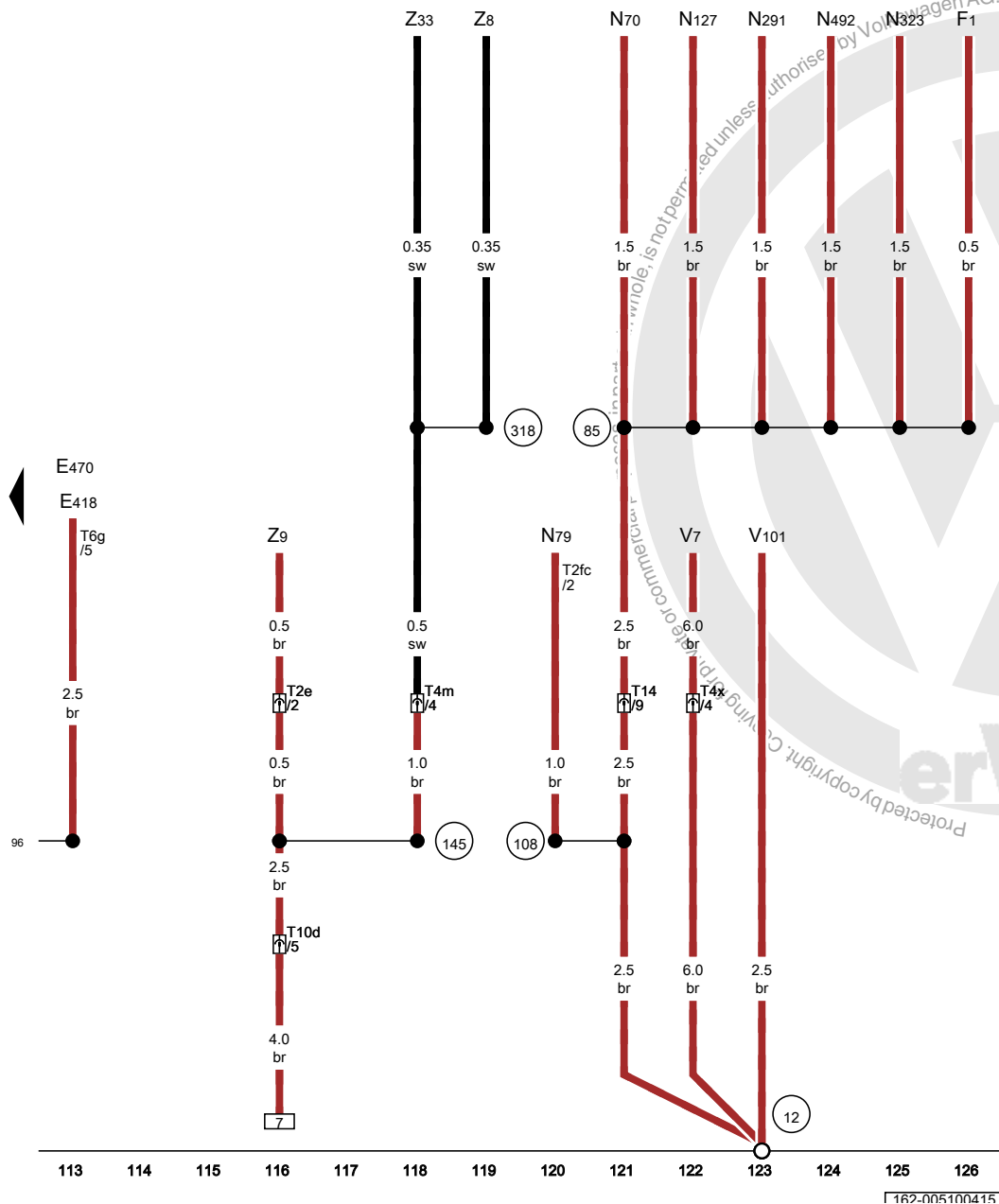
- E234 Release button in rear lid handle
- F5 Luggage compartment lamp switch
- F256 Rear lid lock unit
- G197 Compass magnetic field sensor
- J104 ABS control module
- J345 Towing recognition control module
- M2 Right tail lamp bulb
- MX3 Left tail lamp
- M4 Left tail lamp bulb
- M16 Left back-up lamp bulb
- M17 Right back-up lamp bulb
- T2t Double connector
- T4a 4-pin connector
- T4u 4-pin connector
- T6au 6-pin connector
- T12a 12-pin connector
- T13 13-pin connector
- T26 26-pin connector
- T47 47-pin connector
- U10 Trailer socket
- X License plate lamp
- Z1 Rear window defogger
- 86 Ground connection 1 (in rear wiring harness)
- 430 Ground connection in trailer hitch wiring harness
- 431 Ground connection 2 (in roof wiring harness)
- 437 Ground connection (in license plate lamp wiring harness)
- 638 Ground connection on right A-pillar
- 662 Ground connection in left rear side panel
- 681 Ground connection 1 in right rear side panel

162-005080415



- 96 Ground connection 1 (in heated seats wiring harness)
- 136 Ground connection 2 (in heated seats wiring harness)
- 370 Ground connection 5 (in main wiring harness)
- 371 Ground connection 6 (in main wiring harness)
- 379 Ground connection 14 (in main wiring harness)
- 610 Audio ground connection under front center console

Ground connection in engine compartment, left, Ground connection 1 (in heated seats wiring harness), Ground connection 3 (in heated seats wiring harness), Ground connection 4 (in heated seats wiring harness)



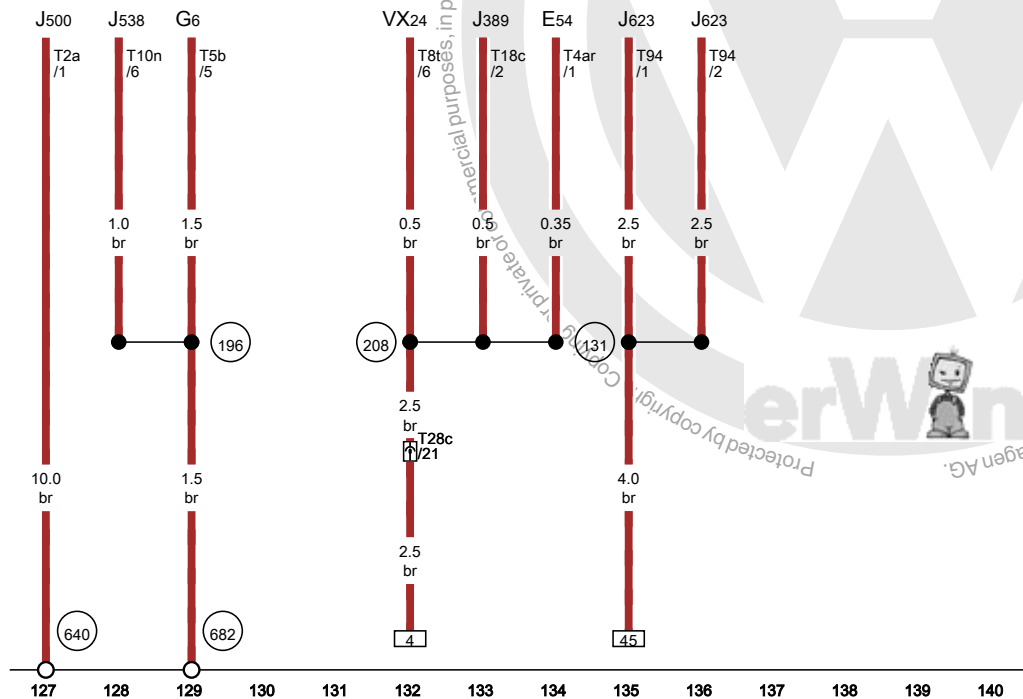
- E418 Seat forward/back adjustment button
- E470 Driver seat adjustment control head
- F1 Oil pressure switch
- N70 Ignition coil 1 with power output stage
- N79 Positive crankcase ventilation heating element
- N127 Ignition coil 2 with power output stage
- N291 Ignition coil 3 with power output stage
- N323 Ignition coil 5 with power output stage
- N492 Cooling circuit solenoid valve
- T2e Double connector
- T2fc Double connector
- T4m 4-pin connector
- T4x 4-pin connector
- T6g 6-pin connector
- T10d 10-pin connector
- T14 14-pin connector
- V7 Radiator fan
- V101 Secondary air injection pump motor
- Z8 Front passenger seat heating element
- Z9 Front passenger backrest heating element
- Z33 Front passenger seat bolster heater
- 12 Ground connection in engine compartment, left
- 85 Ground connection 1 (in engine compartment wiring harness)
- 96 Ground connection 1 (in heated seats wiring harness)
- 108 Ground connection 2 (in left front wiring harness)
- 145 Ground connection 3 (in heated seats wiring harness)
- 318 Ground connection 4 (in heated seats wiring harness)

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Ground connection 2 (in engine compartment wiring harness), Ground connection (in right rear door wiring harness), Ground connection 2 in engine compartment, left, Ground connection 2 in right rear side panel

- E54 Right rear window switch in right rear door
- G6 Transfer fuel pump
- J389 Right rear door control module
- J500 Power steering control module
- J538 Fuel pump control module
- J623 Engine control module
- T2a Double connector
- T4ar 4-pin connector
- T5b 5-pin connector
- T8t 8-pin connector
- T10n 10-pin connector
- T18c 18-pin connector
- T28c 28-pin connector
- T94 94-pin connector
- VX24 Right rear door lock unit

- 131 Ground connection 2 (in engine compartment wiring harness)
- 196 Ground connection 3 (in rear wiring harness)
- 208 Ground connection (in right rear door wiring harness)
- 640 Ground connection 2 in engine compartment, left
- 682 Ground connection 2 in right rear side panel



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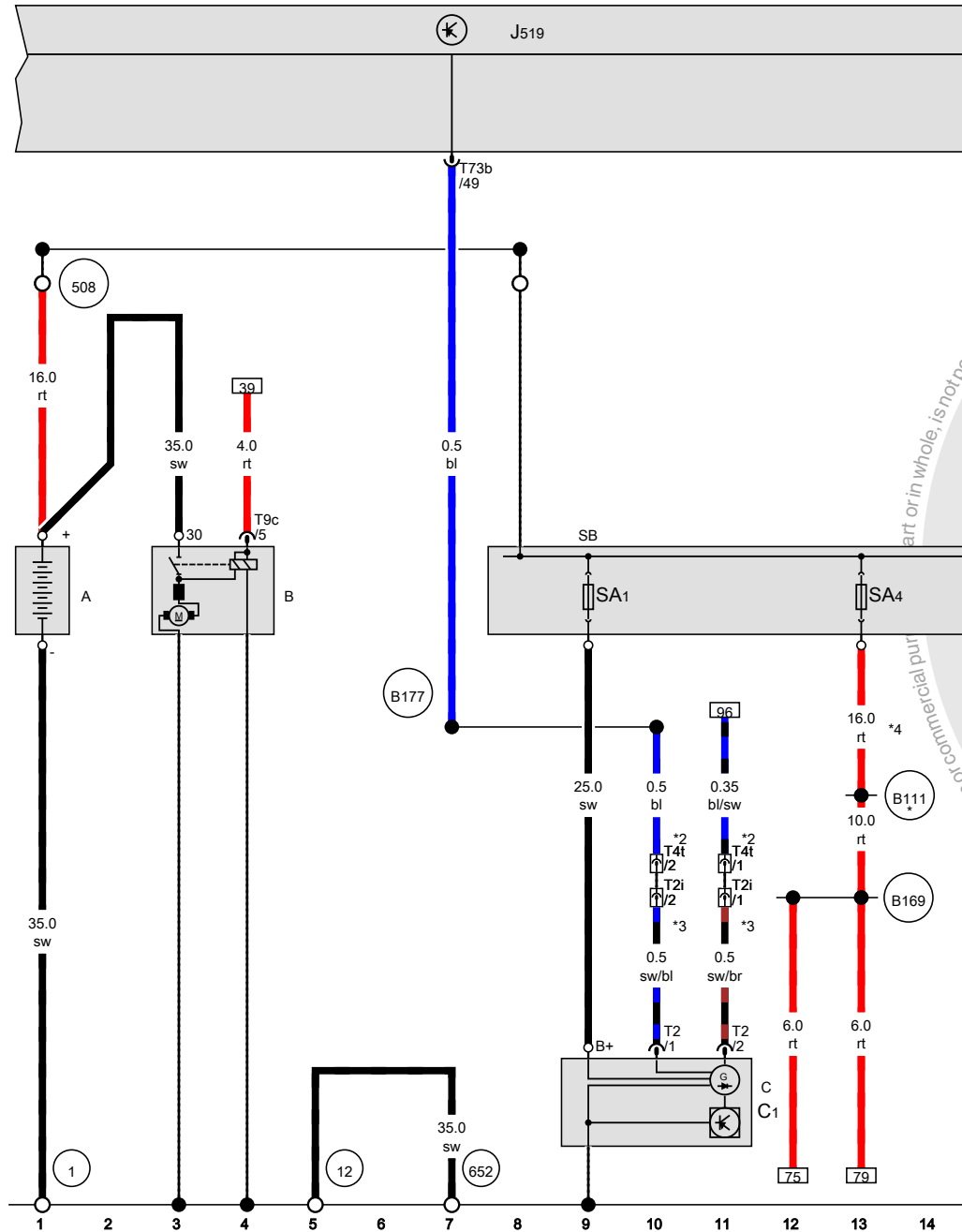
162-005110415

2.0L Gasoline Engine , CBPA,(AW0)

From April 2010



Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse 1 (On Fuse Panel A), Fuse 4 (On Fuse Panel A), Fuse Panel B



- A Battery
- B Starter
- C Generator
- C1 Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T73b 73-Pin Connector

- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine/Motor Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)

- * Omitted as a Running Change
- *2 For Vehicles with A/C System
- *3 For Vehicles Without an A/C System
- *4 Diameter Depends on Equipment

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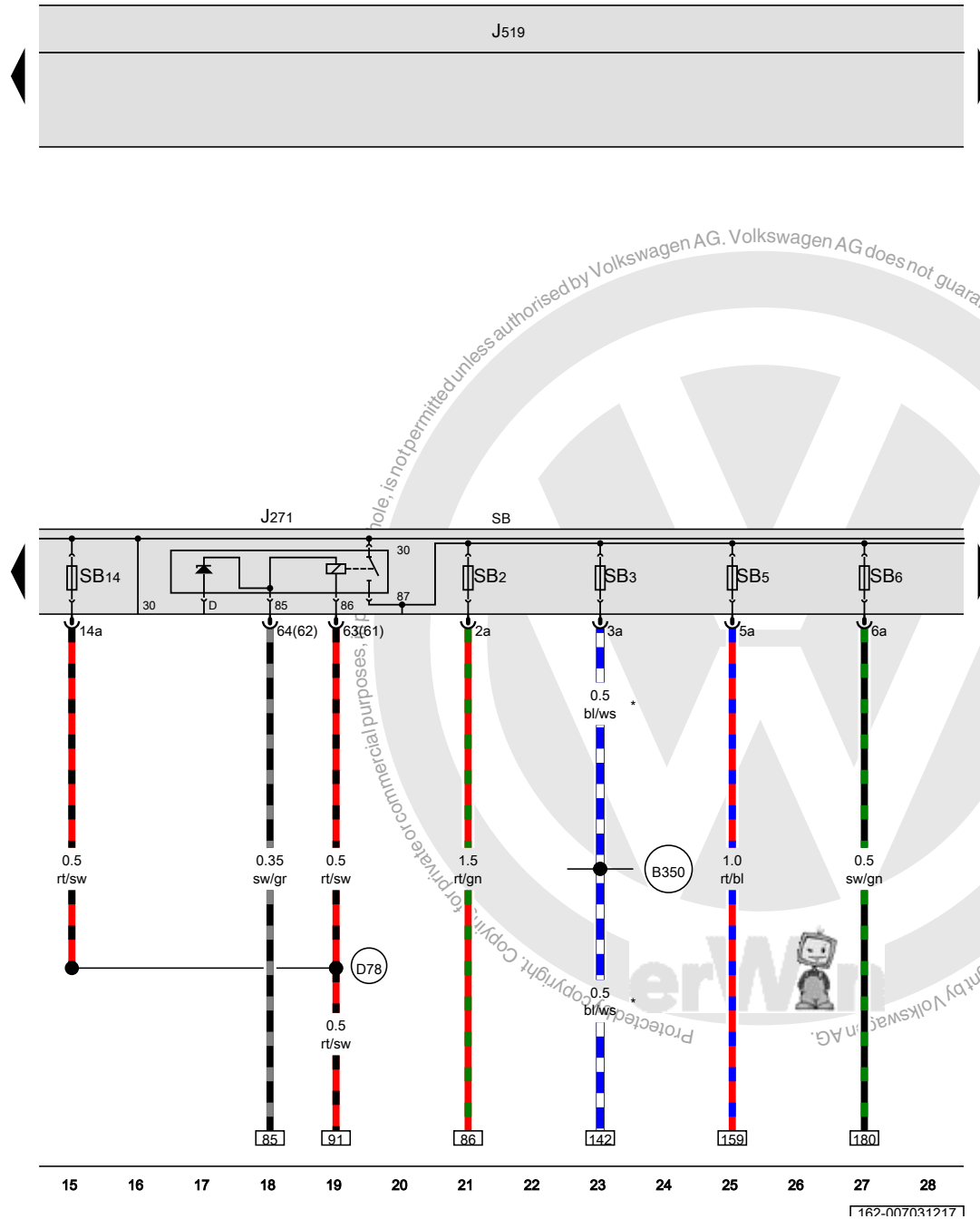
**Motronic Engine Control Module Power Supply Relay,
Vehicle Electrical System Control Module, Fuse Panel B**

- J271 Motronic Engine Control Module Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB6 Fuse 6 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)

B350 Positive Connection 1 (87a) (in Main Wiring Harness)

D78 Positive Connection 1 (30a) (in Engine/Motor Compartment Wiring Harness)

* The Color of the Wires Depends on Vehicle Equipment

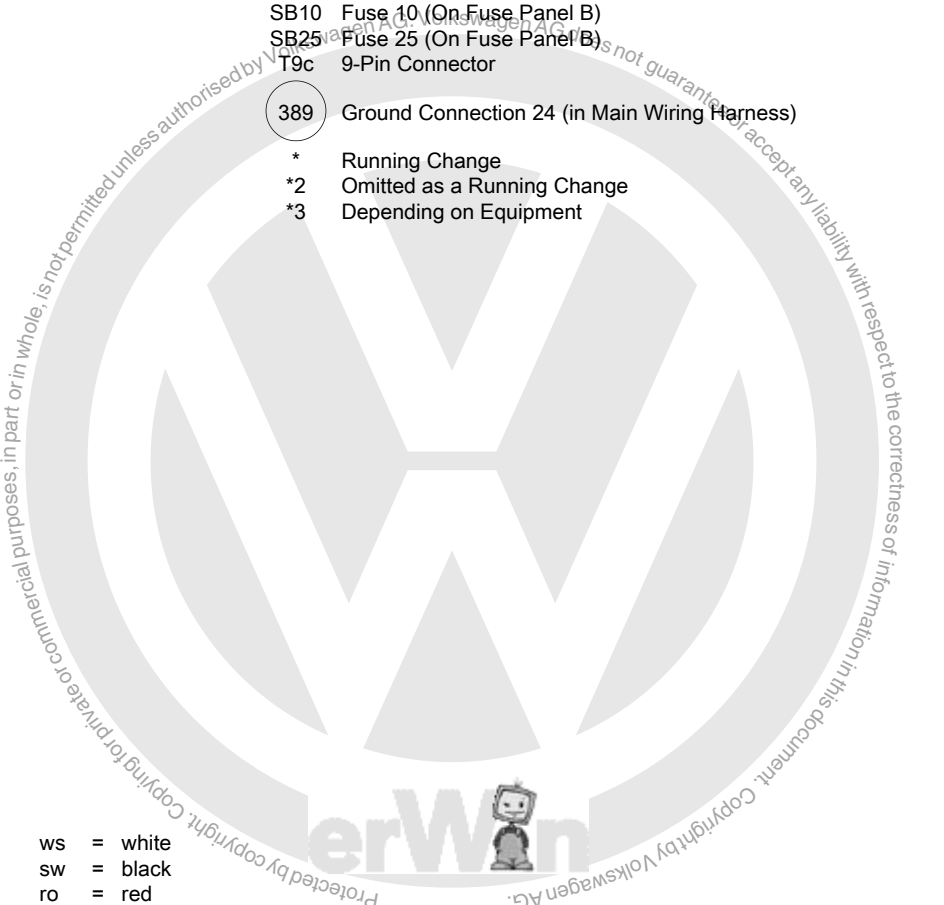
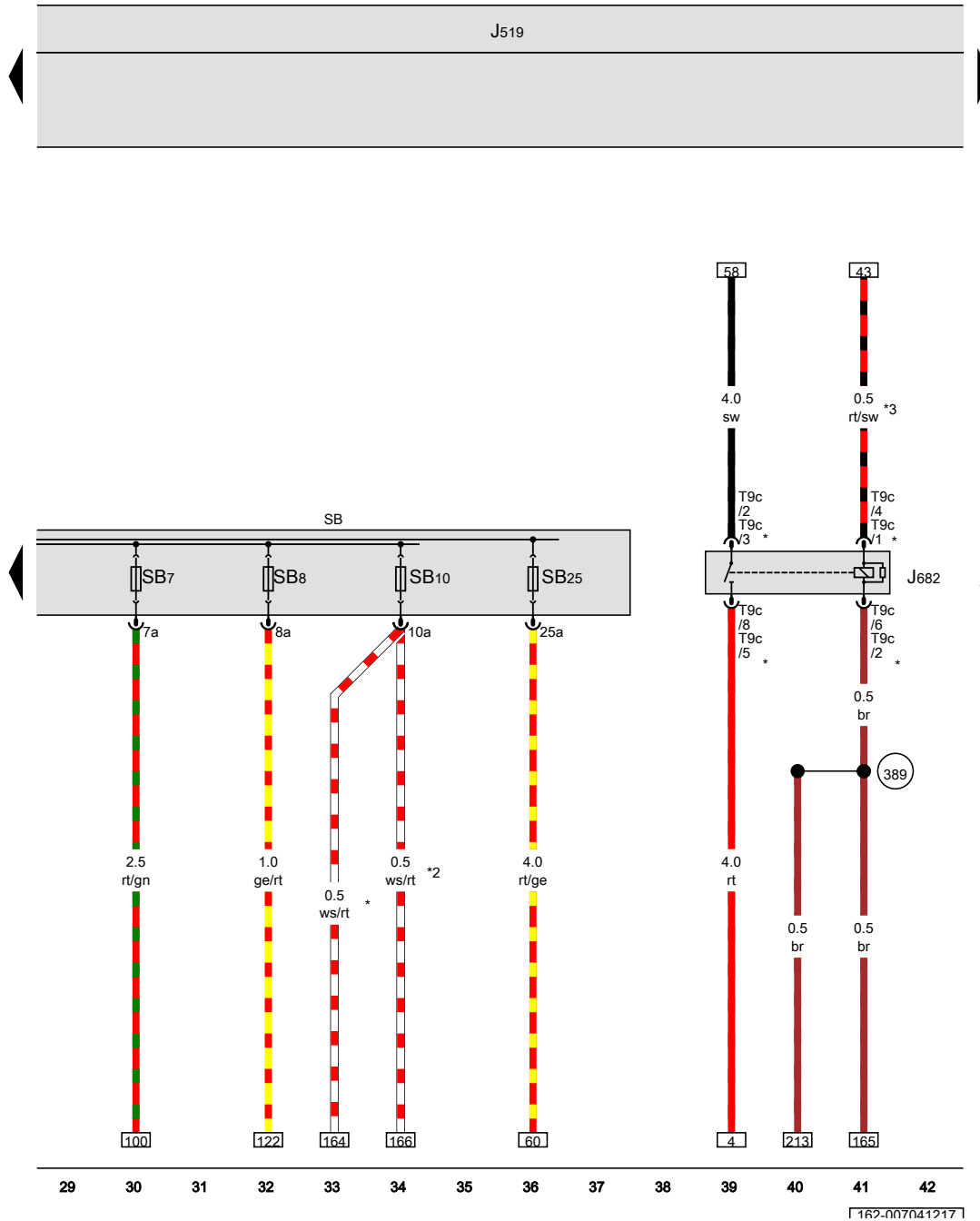


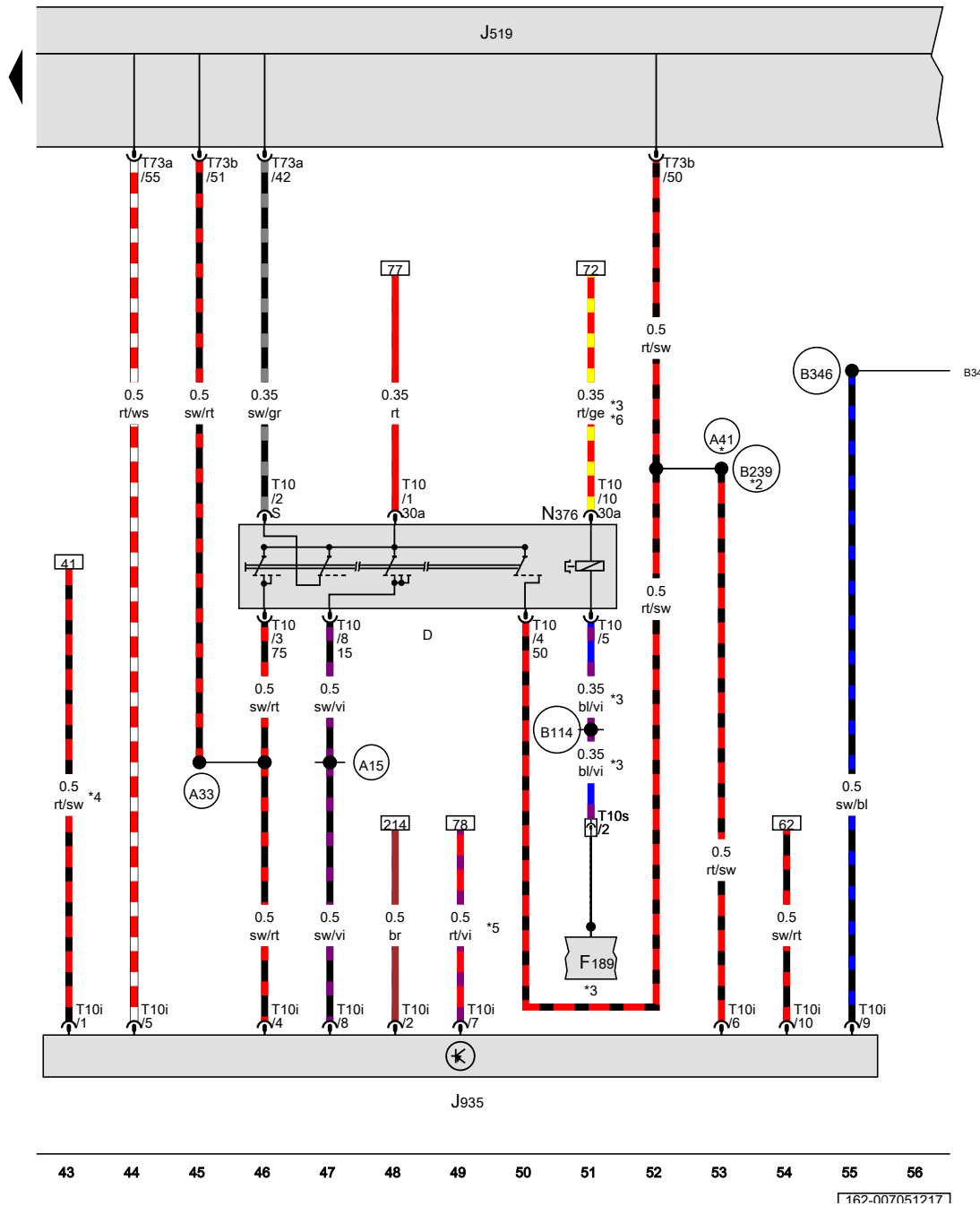
**Vehicle Electrical System Control Module, Terminal 50
Power Supply Relay, Fuse Panel B**

- J519 Vehicle Electrical System Control Module
- J682 Terminal 50 Power Supply Relay
- SB Fuse Panel B
- SB7 Fuse 7 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T9c 9-Pin Connector

389 Ground Connection 24 (in Main Wiring Harness)

- * Running Change
- *2 Omitted as a Running Change
- *3 Depending on Equipment



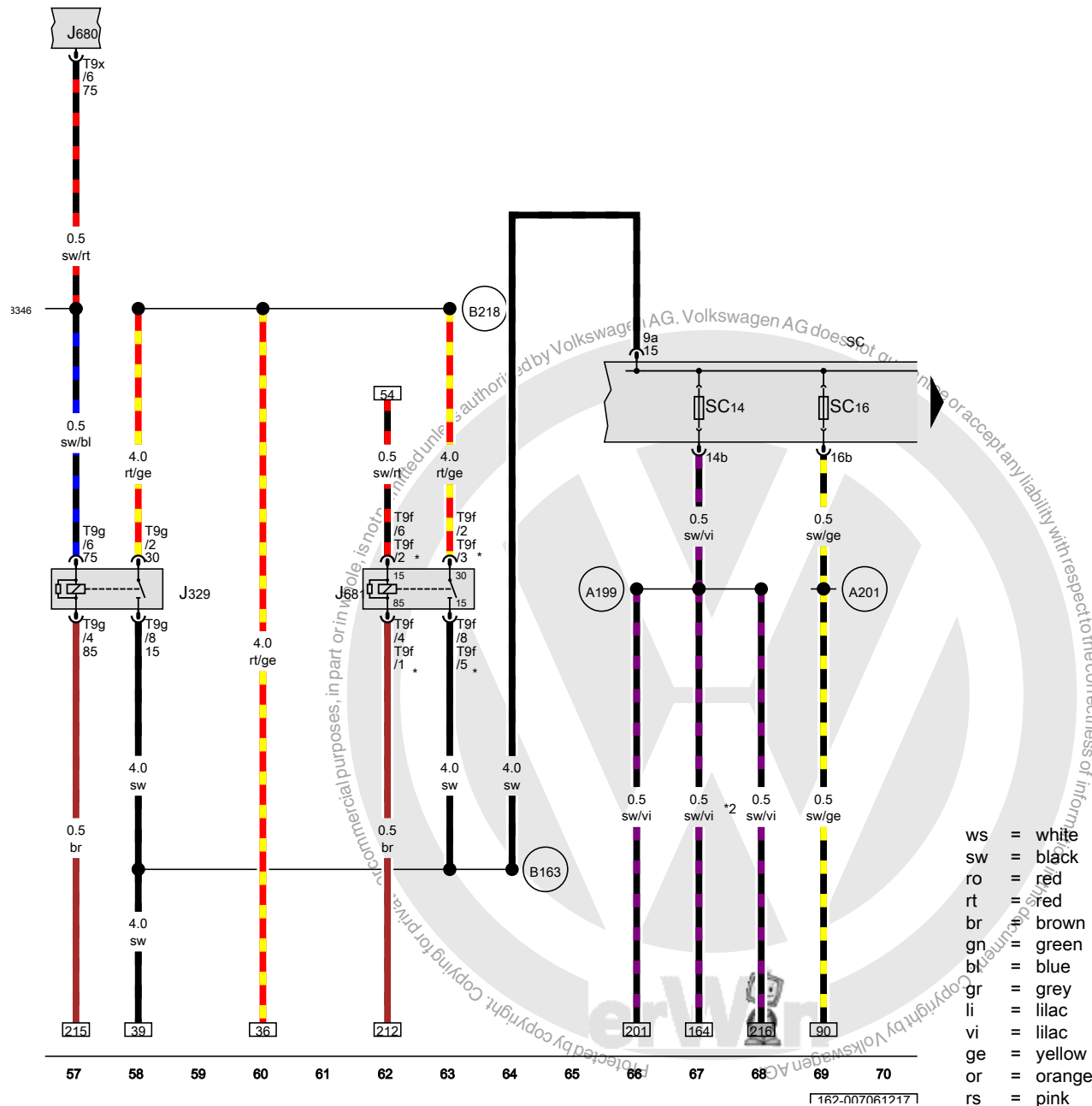


Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box

- D Ignition/Starter Switch
- F189 Tiptronic Switch
- J519 Vehicle Electrical System Control Module
- J935 Converter Box
- N376 Ignition Switch Key Lock Solenoid
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T10s 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- A15 Plus Connection (15) (in Instrument Cluster Wiring Harness)
- A33 Connection 75 (in Instrument Panel Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- B114 Lock Switch Connection (in Interior Wiring Harness)
- B239 Positive Connection 1 (50) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * From June 2013
- *2 Through May 2013
- *3 For Vehicles with Automatic Transmission
- *4 Depending on Equipment
- *5 The Color of the Wires Depends on Vehicle Equipment
- *6 Diameter Depends on Equipment

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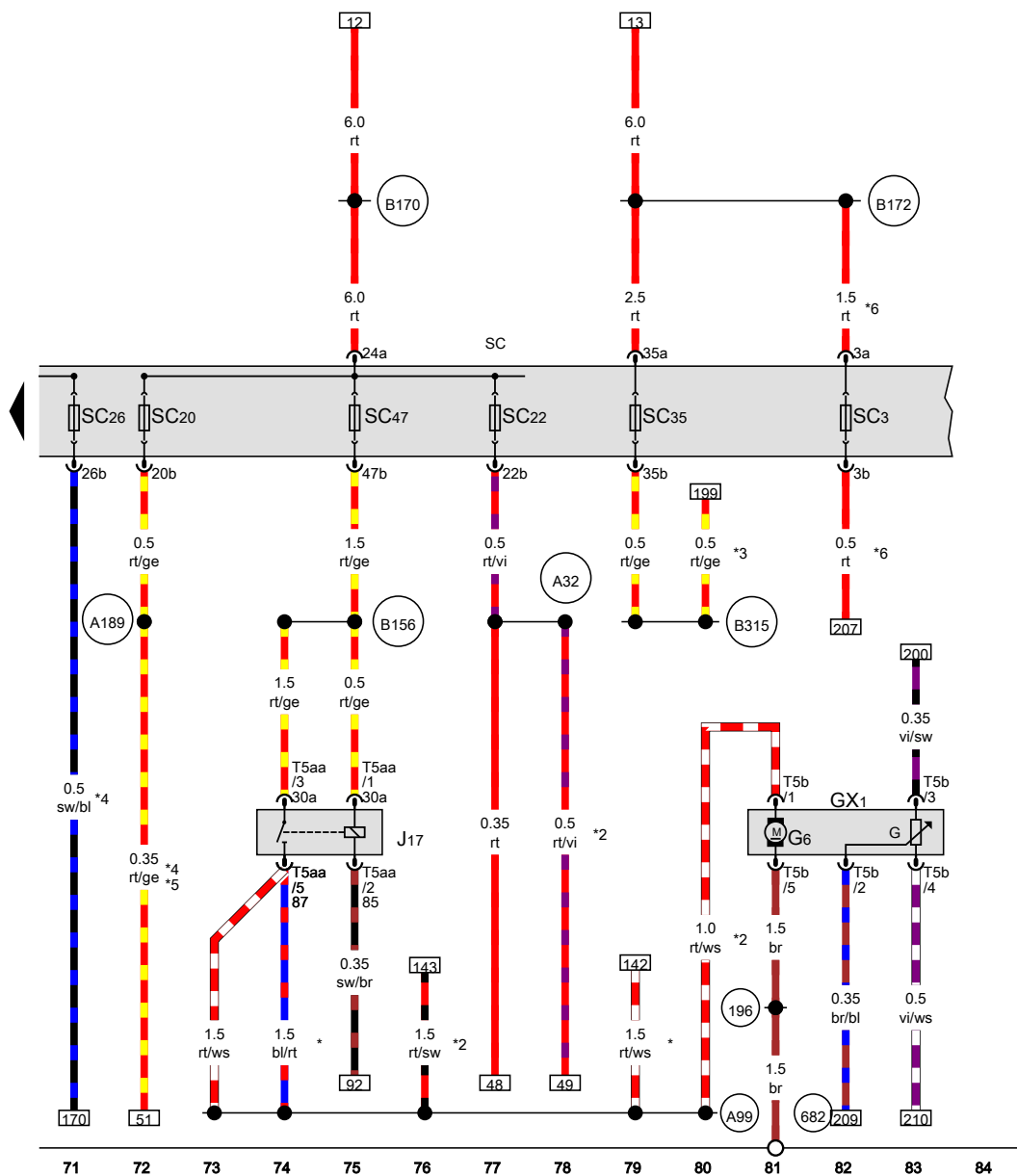


Terminal 15 Power Supply Relay, Terminal 15 Power Supply Relay 2, Fuse Panel C

- J329 Terminal 15 Power Supply Relay
- J680 Terminal 75 Power Supply Relay 1
- J681 Terminal 15 Power Supply Relay 2
- SC Fuse Panel C
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- T9f 9-Pin Connector
- T9g 9-Pin Connector
- T9x 9-Pin Connector

- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * Running Change
- *2 Omitted as a Running Change

Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Fuel Pump Relay, Fuse Panel C



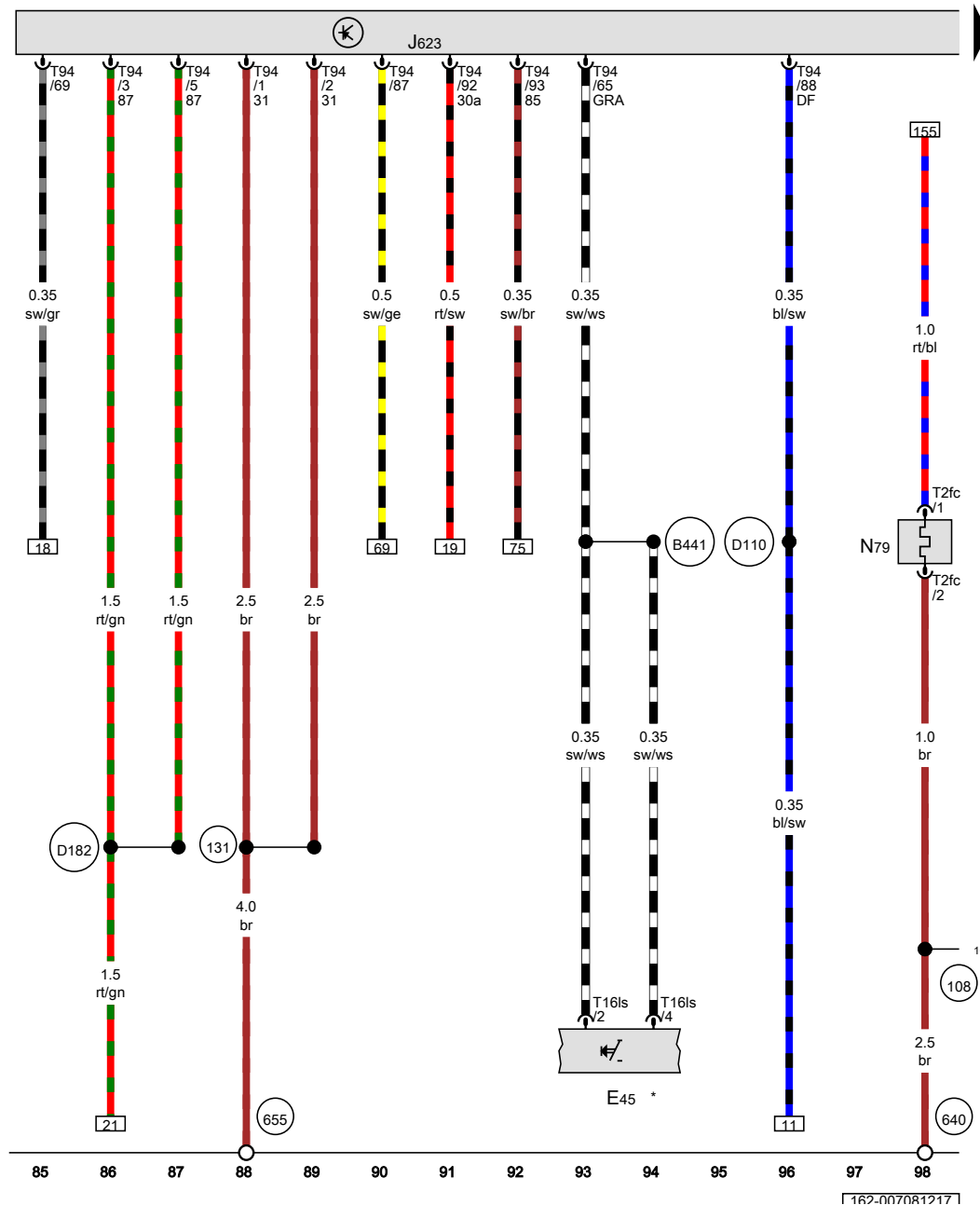
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- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J17 Fuel Pump Relay
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC20 Fuse 20 (On Fuse Panel C)
- SC22 Fuse 22 (On Fuse Panel C)
- SC26 Fuse 26 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- SC47 Fuse 47 (On Fuse Panel C)
- T5aa 5-Pin Connector
- T5b 5-Pin Connector
- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- A32 Positive Connection (30) (in Instrument Panel Wiring Harness)
- A99 Connection 87 (in Instrument Panel Wiring Harness) 1
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- B156 Positive Connection 30a (in Interior Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- * Through July 2013
- *2 The Color of the Wires Depends on Vehicle Equipment
- *3 Omitted as a Running Change
- *4 For Vehicles with Automatic Transmission
- *5 Diameter Depends on Equipment
- *6 Running Change

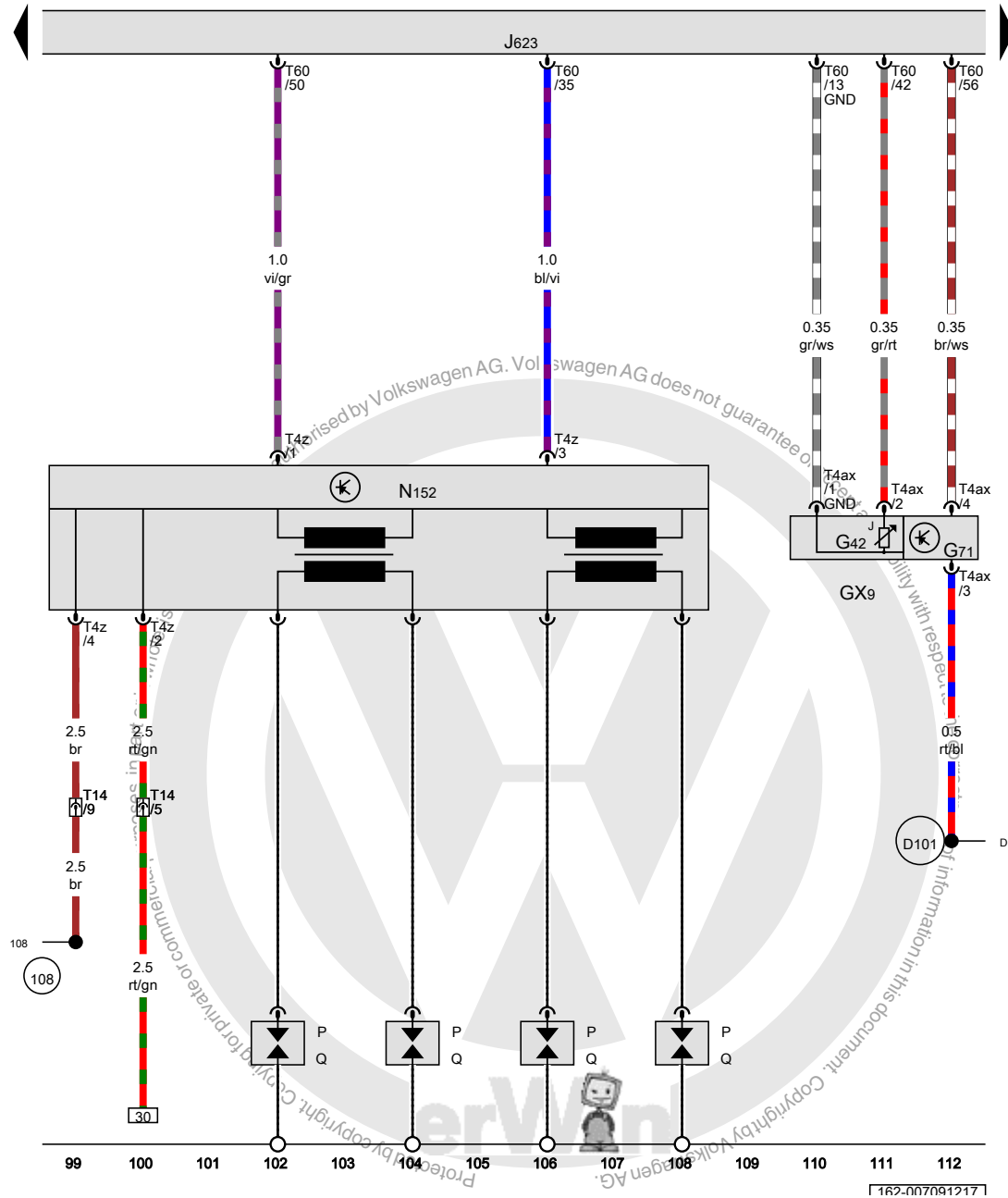
Engine/Motor Control Module

- E45 Cruise Control Switch
- J623 Engine/Motor Control Module
- N79 Positive Crankcase Ventilation Heating Element
- T2fc 2-Pin Connector
- T16ls 16-Pin Connector
- T94 94-Pin Connector

- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 640 Ground Connection 2 in Engine/Motor Compartment, Left
- 655 Ground Connection on Left Headlamp
- B441 Cruise Control Connection (in Main Wiring Harness)
- D110 Connection 8 (in Engine/Motor Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine/Motor Compartment Wiring Harness)
- * For Vehicles with Cruise Control System



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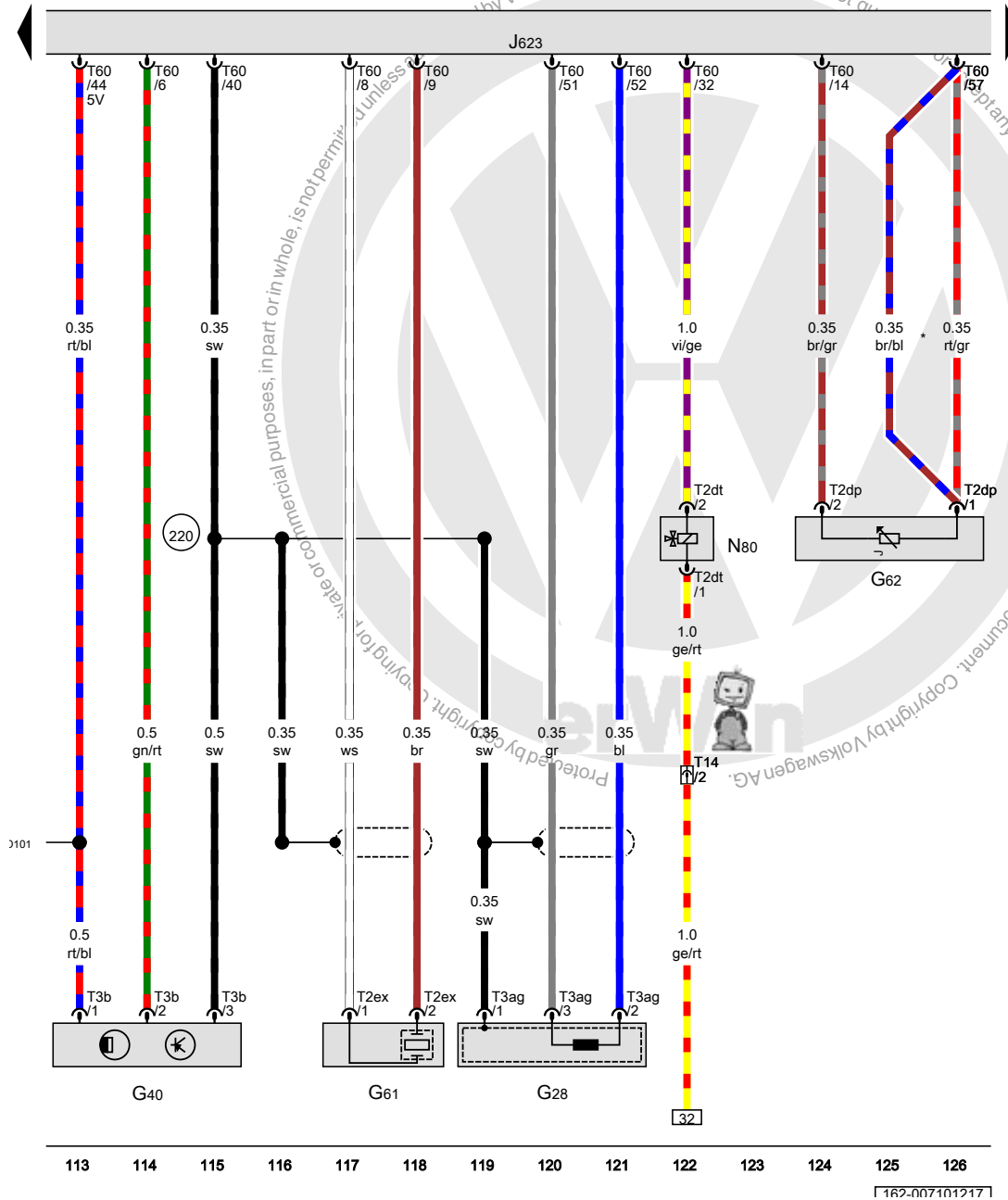
Intake Manifold Sensor, Intake Air Temperature Sensor, Manifold Absolute Pressure Sensor, Engine/Motor Control Module, Spark Plug Connectors, Spark Plugs

- GX9 Intake Manifold Sensor
- G42 Intake Air Temperature Sensor
- G71 Manifold Absolute Pressure Sensor
- J623 Engine/Motor Control Module
- N152 Ignition Transformer
- P Spark Plug Connectors
- Q Spark Plugs
- T4ax 4-Pin Connector
- T4z 4-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector

108 Ground Connection 2 (in Left Front Wiring Harness)

D101 Connection 1 (in Engine/Motor Compartment Wiring Harness)

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Engine Speed Sensor, Camshaft Position Sensor, Knock Sensor 1, Engine Coolant Temperature Sensor, Engine/Motor Control Module, EVAP Canister Purge Regulator Valve 1

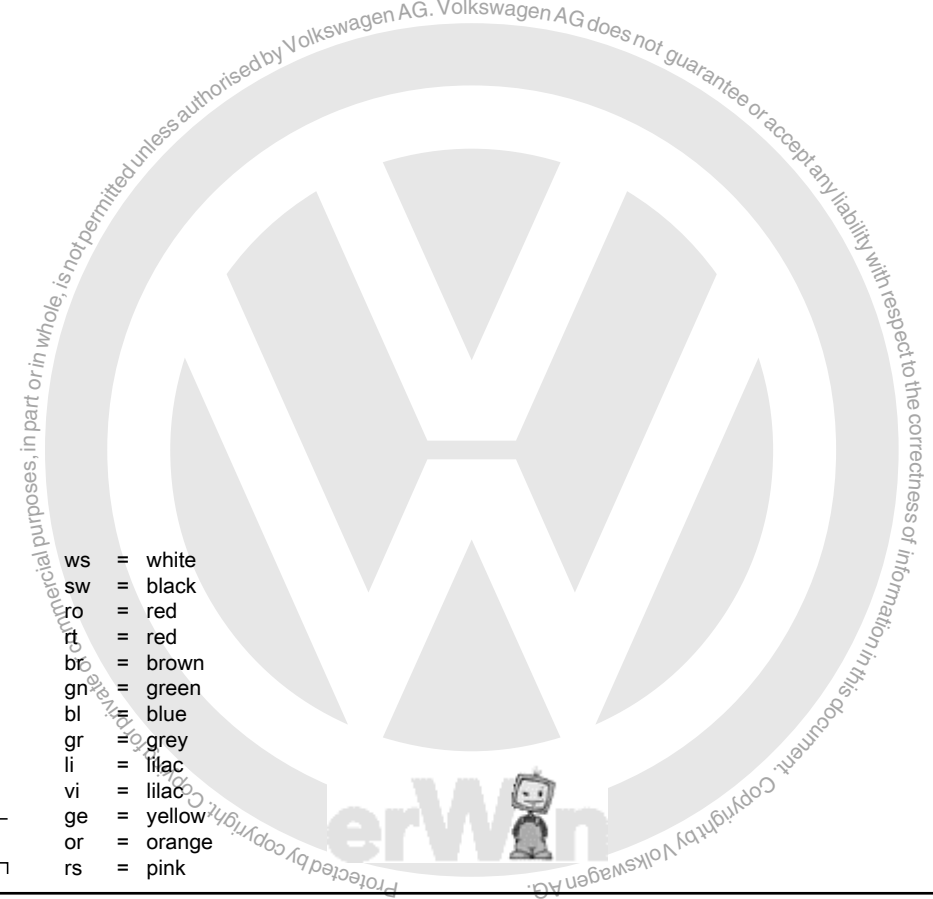
- G28 Engine Speed Sensor
- G40 Camshaft Position Sensor
- G61 Knock Sensor 1
- G62 Engine Coolant Temperature Sensor
- J623 Engine/Motor Control Module
- N80 EVAP Canister Purge Regulator Valve 1
- T2dp 2-Pin Connector
- T2dt 2-Pin Connector
- T2ex 2-Pin Connector
- T3ag 3-Pin Connector
- T3b 3-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector

- 220 Sensor Ground Connection (in Engine Wiring Harness)
- D101 Connection 1 (in Engine/Motor Compartment Wiring Harness)
- * Depending on Equipment

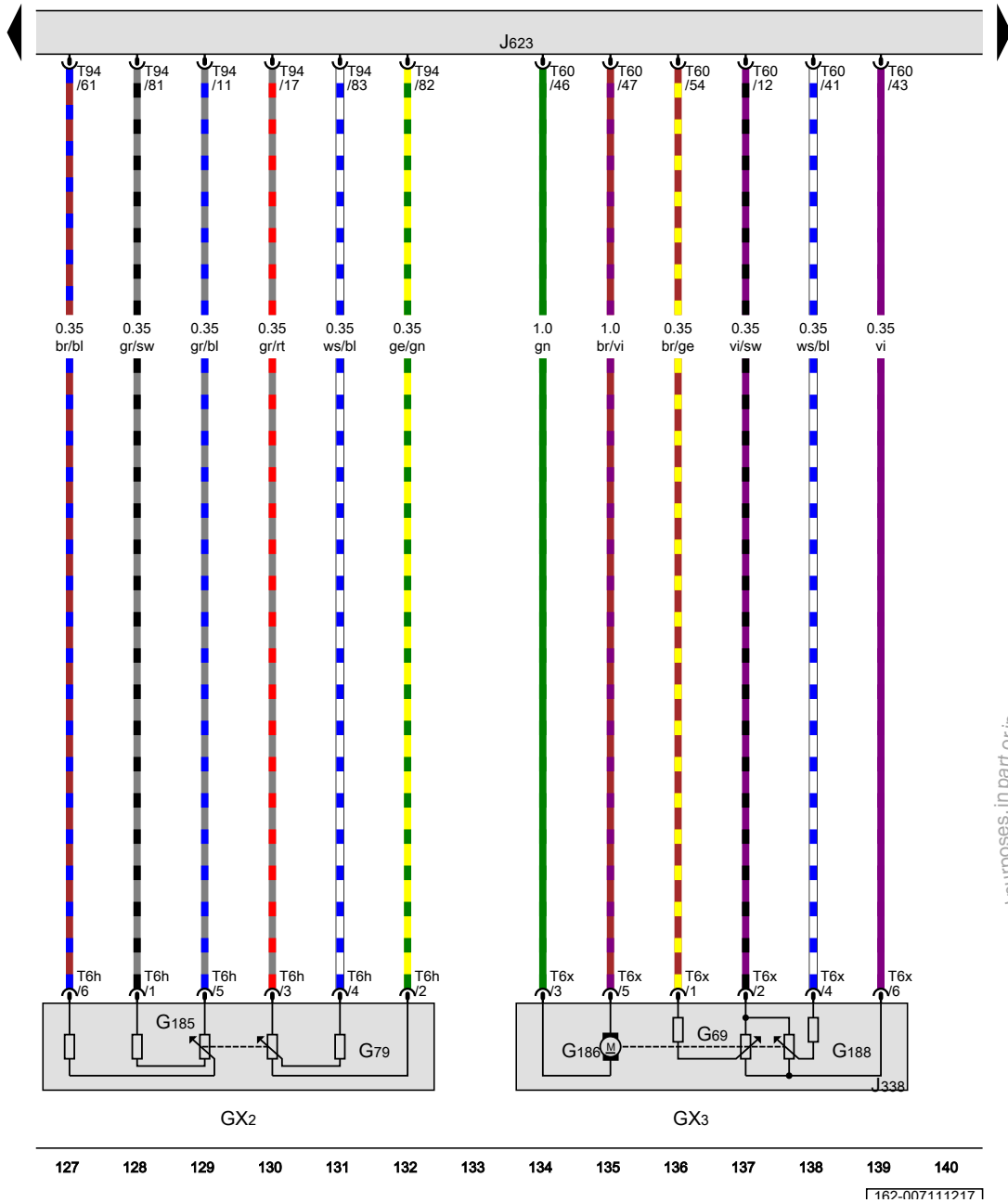
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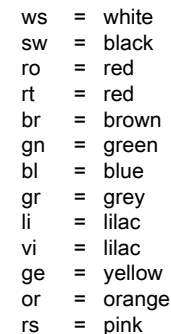
**Accelerator Pedal Module, Throttle Valve Control Module,
Accelerator Pedal Position Sensor, Accelerator Pedal
Position Sensor 2, EPC Throttle Drive, Engine/Motor
Control Module**

- GX2 Accelerator Pedal Module
- GX3 Throttle Valve Control Module
- G69 Throttle Position Sensor
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- G186 EPC Throttle Drive
- G188 EPC Throttle Drive Angle Sensor 2
- J338 Throttle Valve Control Module
- J623 Engine/Motor Control Module
- T6h 6-Pin Connector
- T6x 6-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector

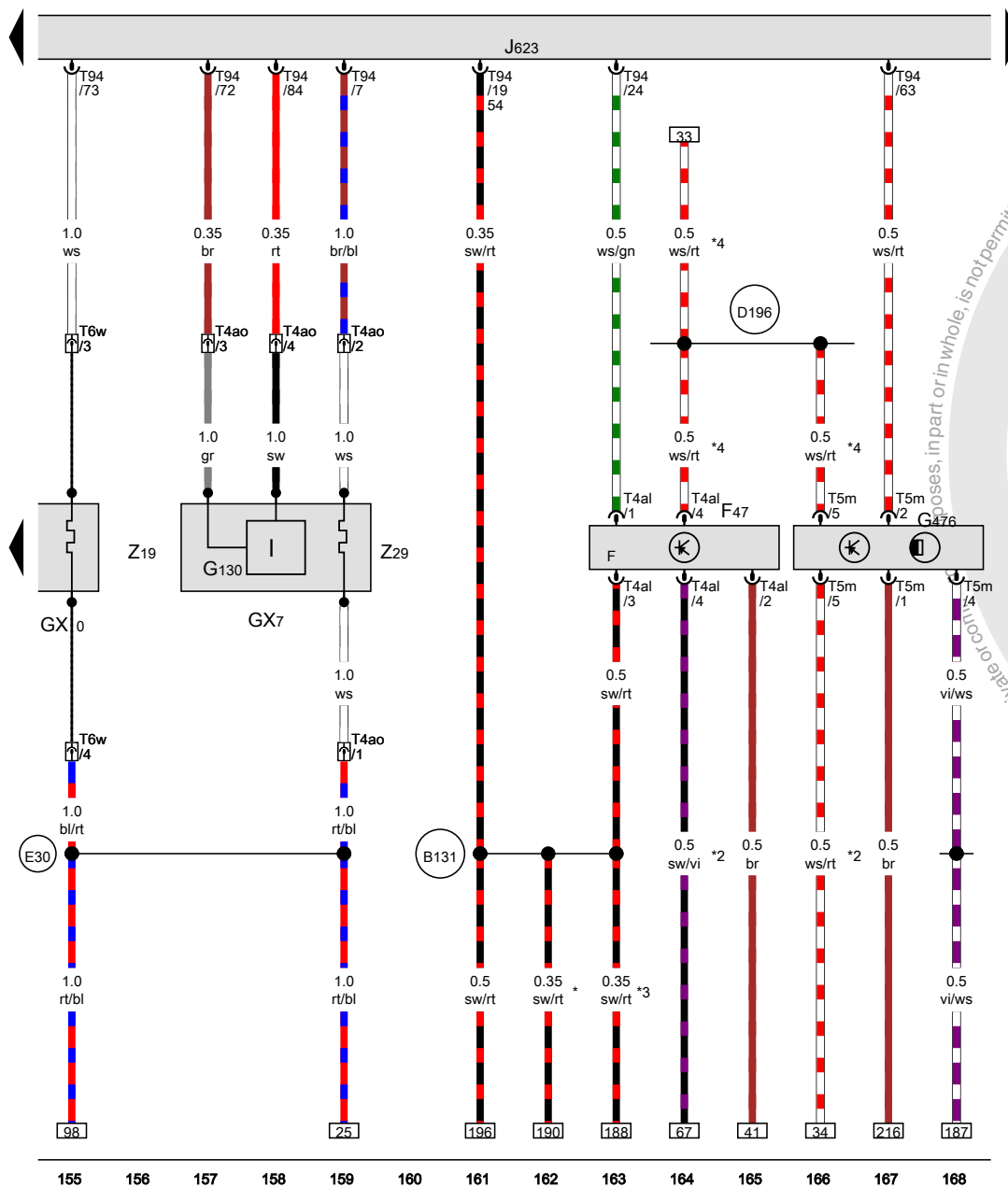


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| | |
|------|--|
| GX10 | Oxygen Sensor 1 Before Catalytic Converter |
| G39 | Heated Oxygen Sensor |
| J623 | Engine/Motor Control Module |
| N30 | Cylinder 1 Fuel Injector |
| N31 | Cylinder 2 Fuel Injector |
| N32 | Cylinder 3 Fuel Injector |
| N33 | Cylinder 4 Fuel Injector |
| T2cg | 2-Pin Connector |
| T2ch | 2-Pin Connector |
| T2ci | 2-Pin Connector |
| T2cj | 2-Pin Connector |
| T4x | 4-Pin Connector |
| T6w | 6-Pin Connector |
| T14 | 14-Pin Connector, Near the Battery |
| T60 | 60-Pin Connector |
| T94 | 94-Pin Connector |
| D95 | Injector Connection (in Engine/Motor Compartment Wiring Harness) |
| * | Radiator Fan Connection |
| *2 | Through July 2013 |
| *3 | The Color of the Wires Depends on Vehicle Equipment |



Brake Lamp Switch, Brake Pedal Switch, Oxygen Sensor 1 After Catalytic Converter, Oxygen Sensor 1 Before Catalytic Converter, Oxygen Sensor After Catalytic Converter, Clutch Position Sensor, Engine/Motor Control Module, Oxygen Sensor Heater, Heater for Oxygen Sensor 1 After Catalytic Converter

- F Brake Lamp Switch
- F47 Brake Pedal Switch
- GX7 Oxygen Sensor 1 After Catalytic Converter
- GX10 Oxygen Sensor 1 Before Catalytic Converter
- G130 Oxygen Sensor After Catalytic Converter
- G476 Clutch Position Sensor
- J623 Engine/Motor Control Module
- T4al 4-Pin Connector
- T4ao 4-Pin Connector
- T5m 5-Pin Connector
- T6w 6-Pin Connector
- T94 94-Pin Connector
- Z19 Oxygen Sensor Heater
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter

- B131 Connection 54 (in Interior Wiring Harness)
- D196 Connection 87A (in Engine Pre-Wiring Harness) 2
- E30 Connection 87A (in Engine Wiring Harness)

- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 Omitted as a Running Change
- *3 For Vehicles with ABS Without ESP
- *4 Running Change

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

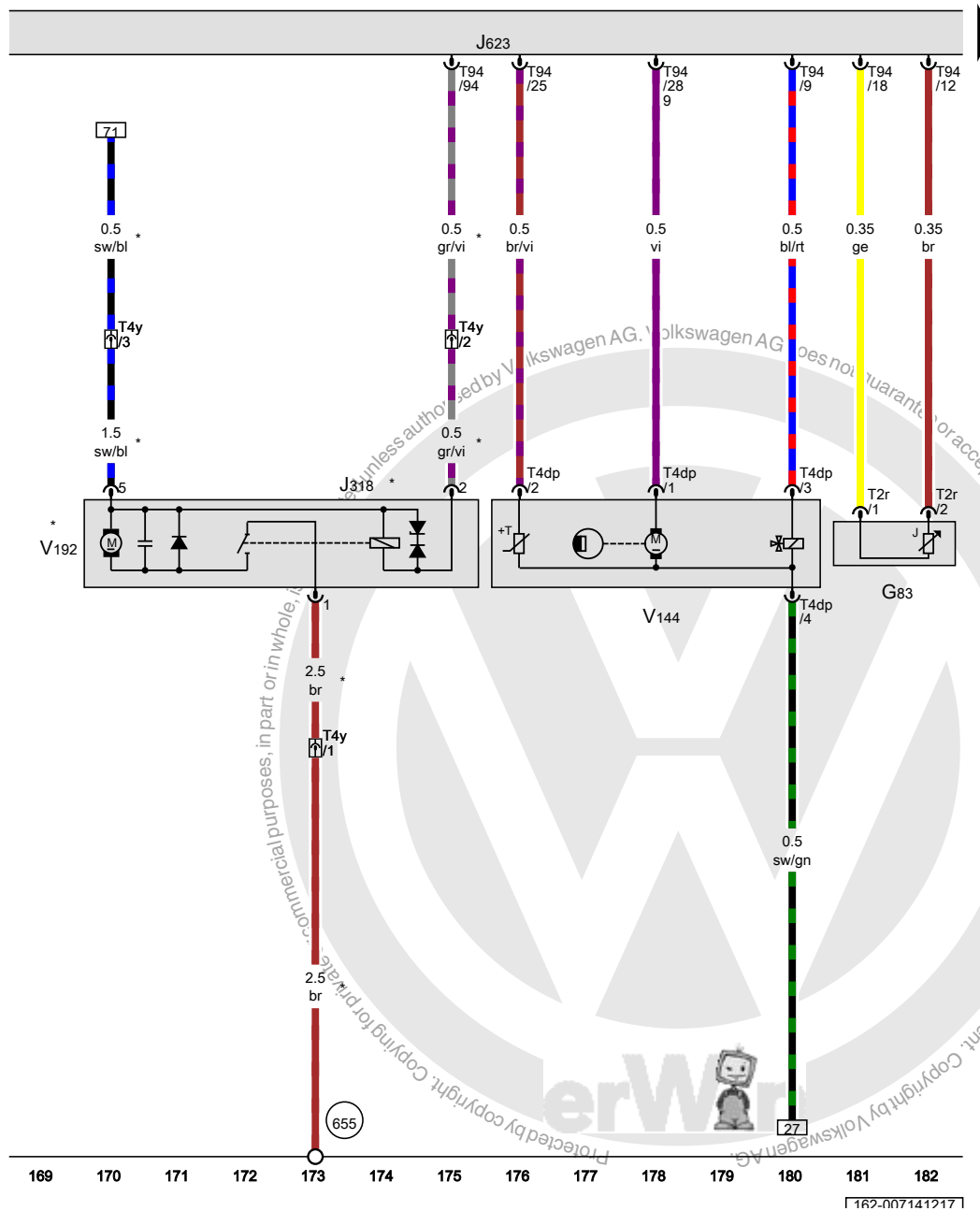
162-007131217

**Engine Coolant Temperature Sensor on Radiator Outlet,
Vacuum Pump Relay, Engine/Motor Control Module, Leak
Detection Pump, Brake System Vacuum Pump**

- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- J318 Vacuum Pump Relay
- J623 Engine/Motor Control Module
- T2r 2-Pin Connector
- T4dp 4-Pin Connector
- T4y 4-Pin Connector
- T94 94-Pin Connector
- V144 Leak Detection Pump
- V192 Brake System Vacuum Pump

655 Ground Connection on Left Headlamp

* For Vehicles with Automatic Transmission



- ws = white
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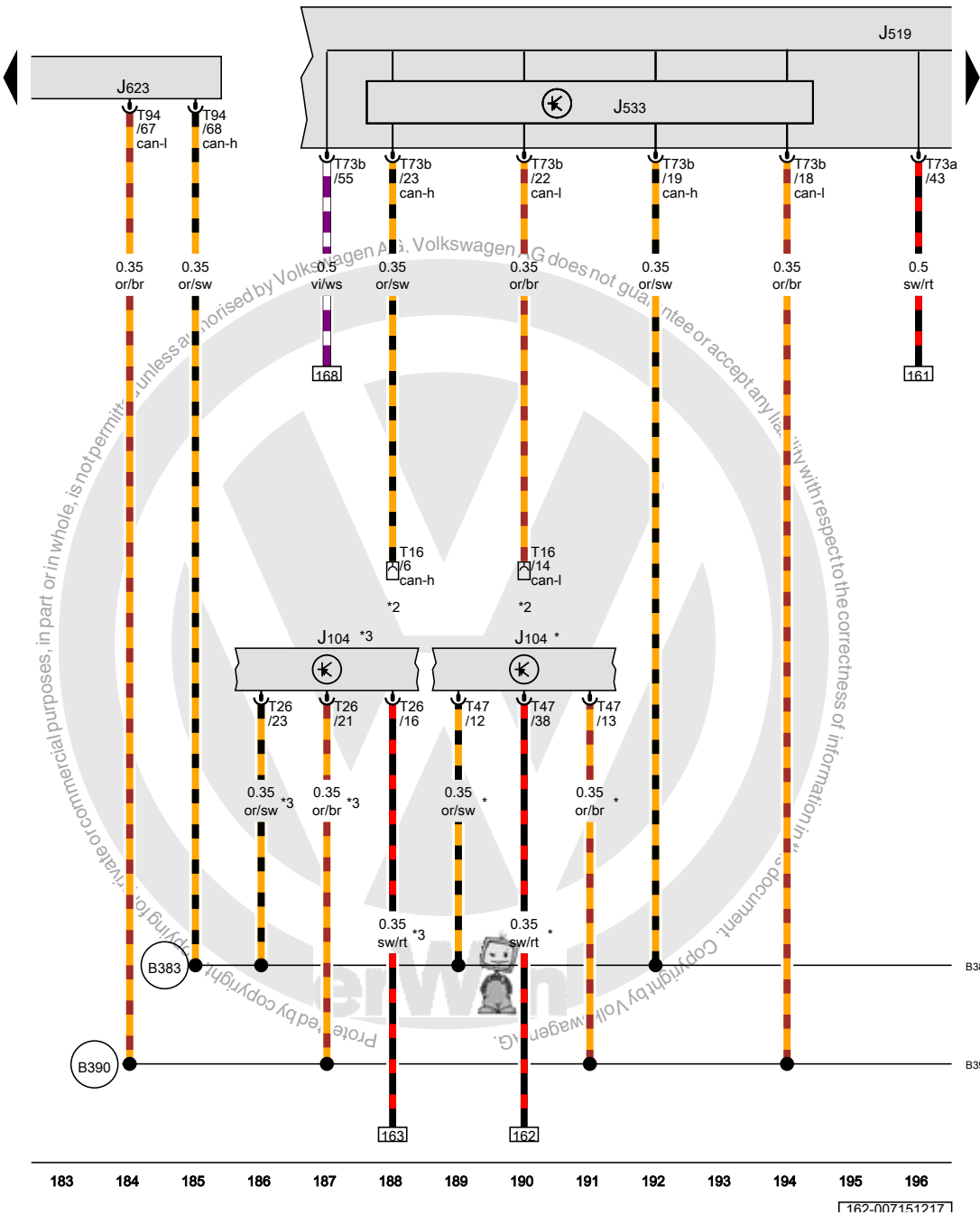
Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Engine/Motor Control Module

- J104 ABS Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine/Motor Control Module
- T16 16-Pin Connector
- T26 26-Pin Connector
- T47 47-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- T94 94-Pin Connector

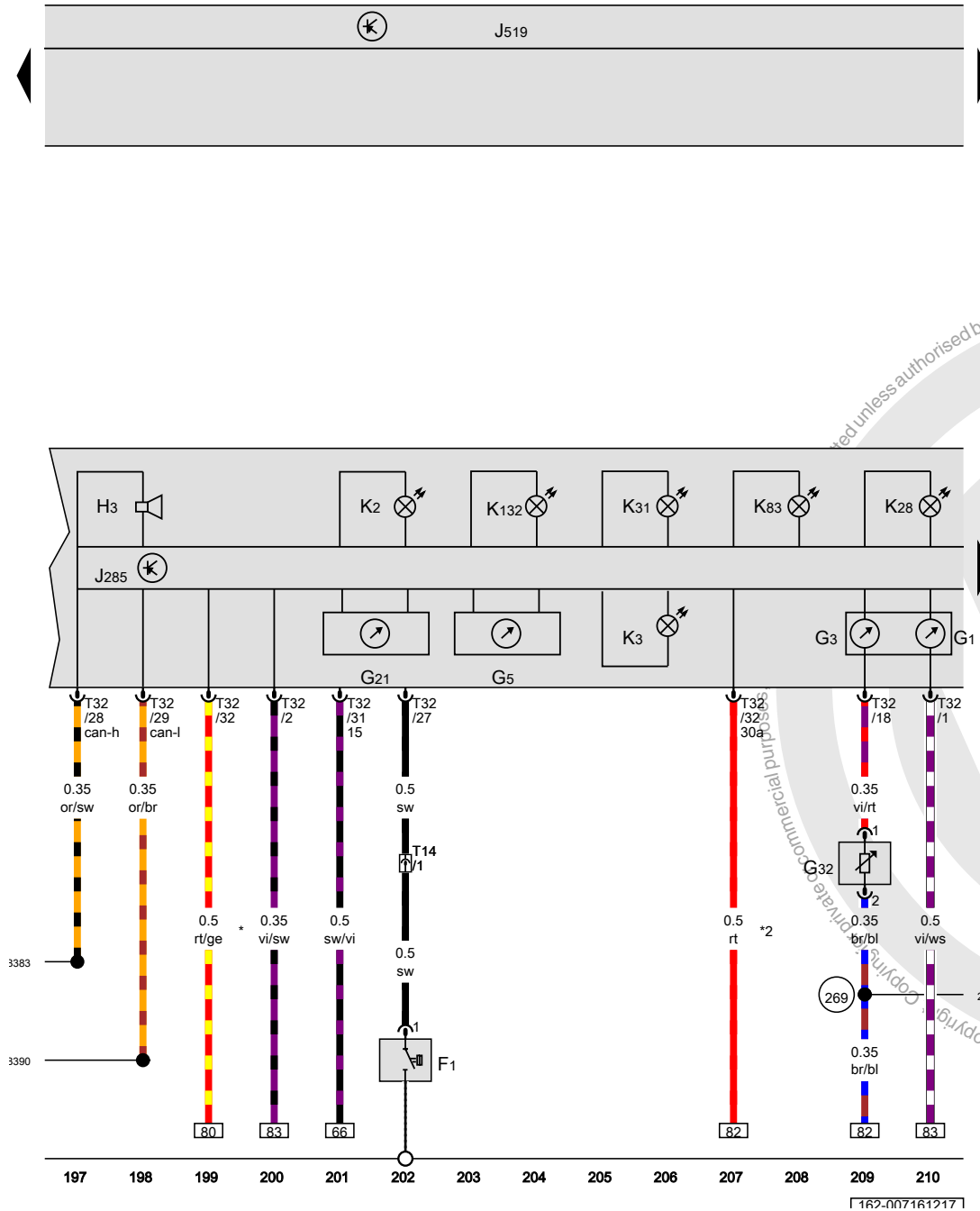
B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)

B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)

- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 Diagnostic Connector
- *3 For Vehicles with ABS Without ESP



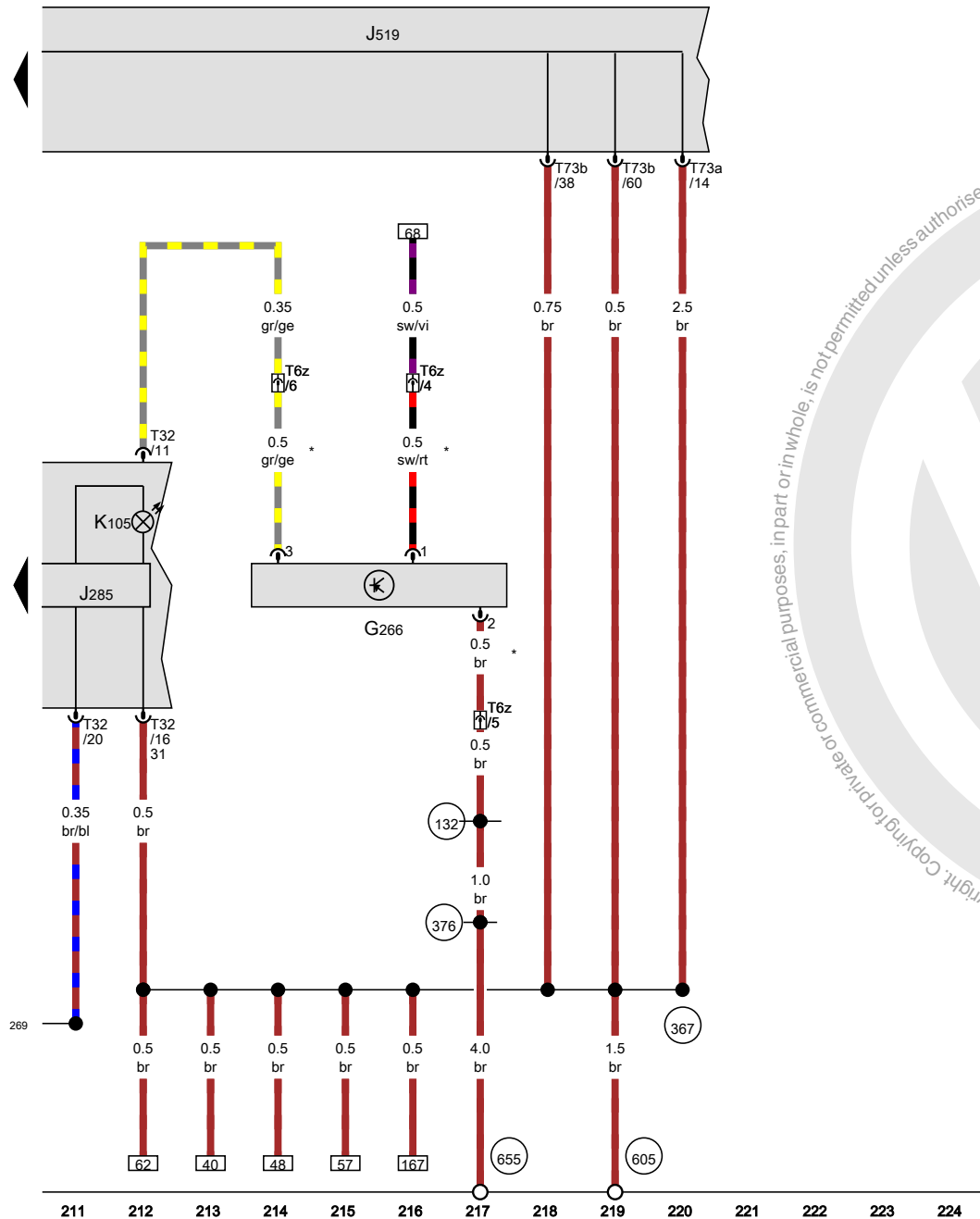
- ws = white
- sw = black
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- bl = blue
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Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Generator Indicator Lamp, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K2 Generator Indicator Lamp
- K3 Oil Pressure Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T14 14-Pin Connector, Near the Starter
- T32 32-Pin Connector
- (269) Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- (B383) Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- (B390) Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Omitted as a Running Change
- *2 Running Change

ws = white
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Instrument Cluster Control Module, Vehicle Electrical System Control Module, Low Fuel Level Indicator Lamp

- G266 Oil Level Thermal Sensor
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K105 Low Fuel Level Indicator Lamp
- T6z 6-Pin Connector
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- 132 Ground Connection 3 (in Engine/Motor Compartment Wiring Harness)
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- 655 Ground Connection on Left Headlamp
- * For Vehicles with Flexible Service Interval Display

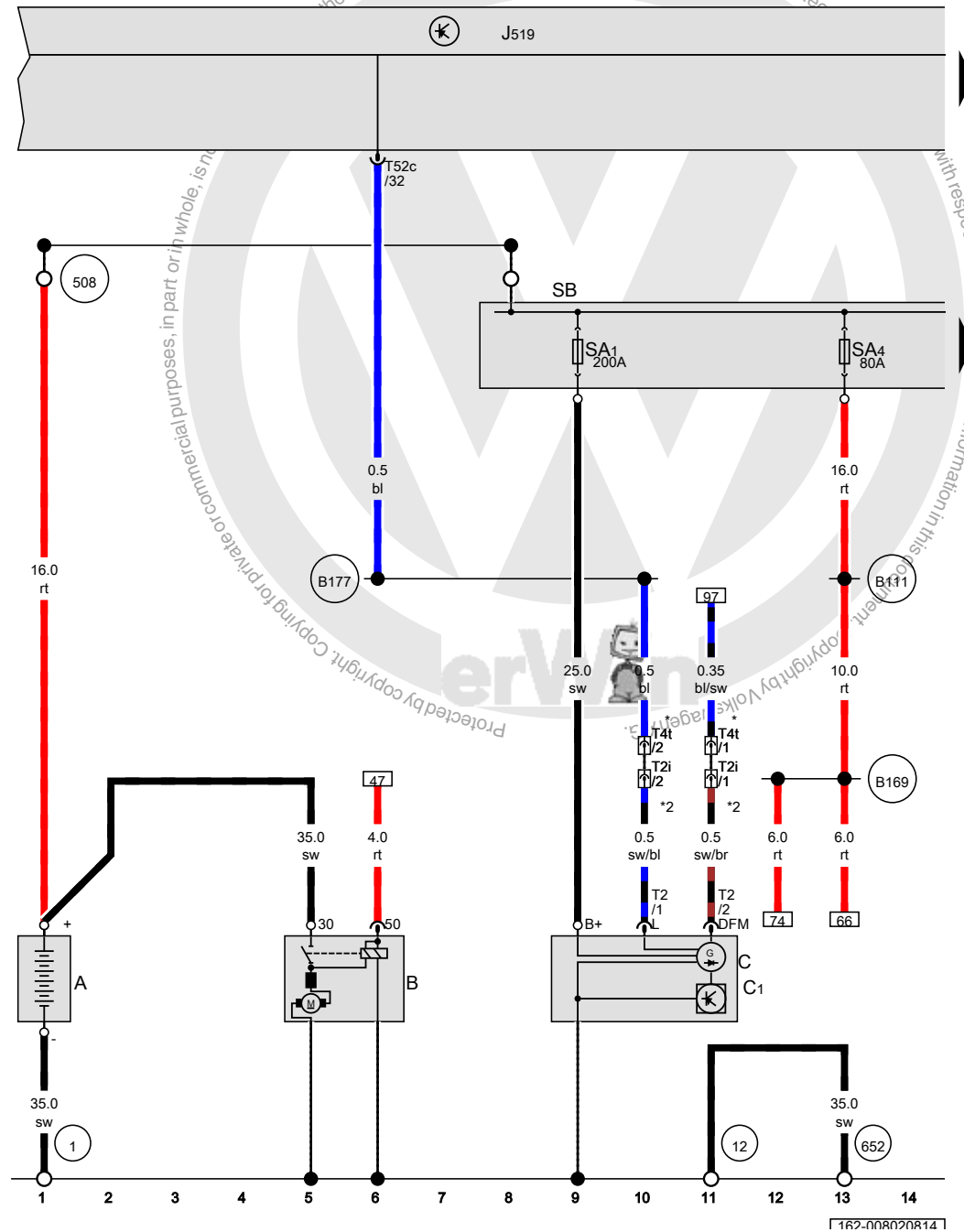
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 ge = yellow
 or = orange
 rs = pink

162-007171217

2.0L gasoline engine , CBPA,(AW1)

from April 2010





Battery, Starter, Generator, Vehicle electrical control module system, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A), Fuse panel B

- A Battery
- B Starter
- C Generator
- C1 Voltage regulator
- J519 Vehicle electrical control module system
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- T2 Double connector
- T2i Double connector, near the starter
- T4t 4-pin connector, near the starter
- T52c 52-pin connector

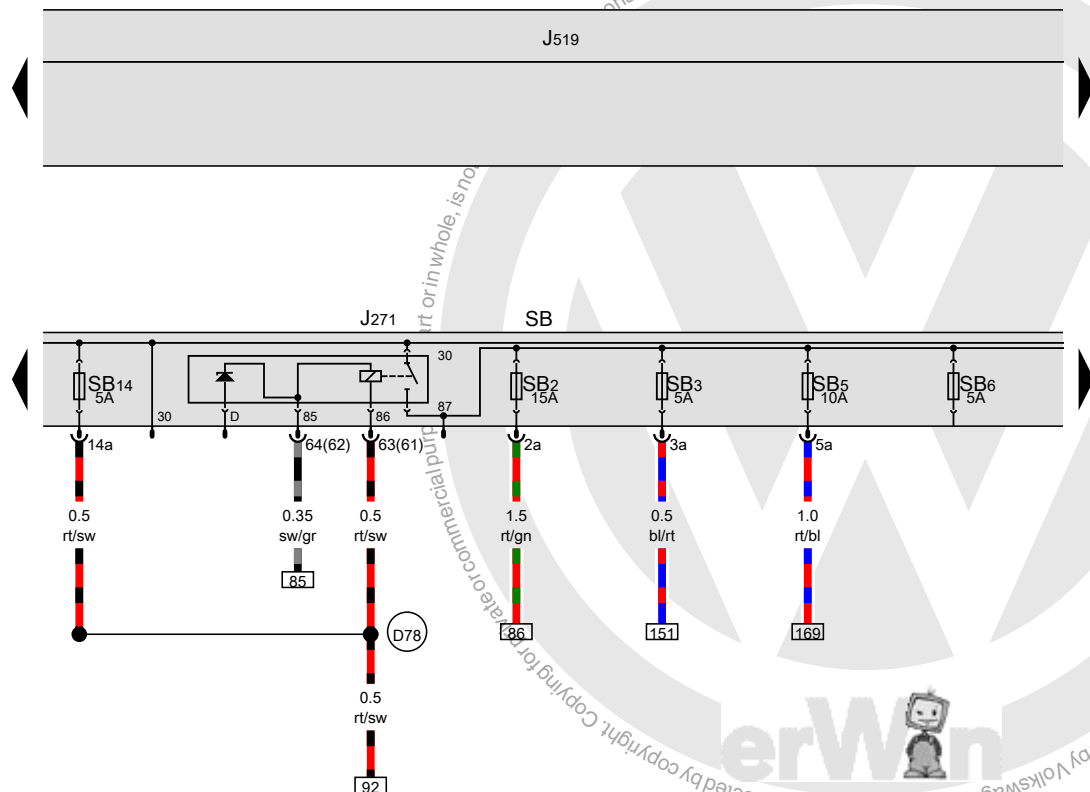
- 1 Ground strap, battery to body
- 12 Ground connection in engine compartment, left
- 508 Terminal 30 threaded connection (on E-box)
- 652 Transmission/engine ground connection
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B177 Connection 61 (in interior wiring harness)

- * Only for vehicles with A/C system
- *2 Only for vehicles without an A/C system

- ws = white
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- or = orange
- rs = pink

Motronic engine control module power supply relay, Vehicle electrical control module system, Fuse panel B

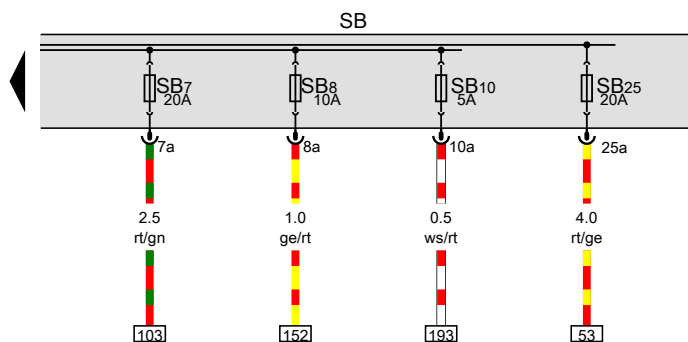
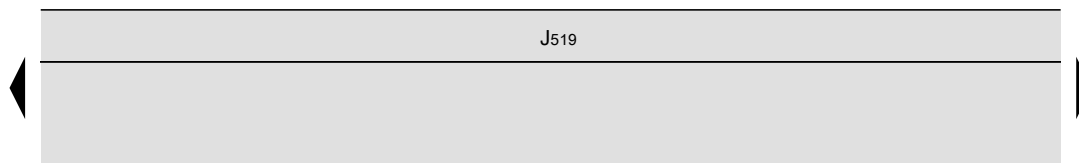
- J271 Motronic engine control module power supply relay
- J519 Vehicle electrical control module system
- SB Fuse panel B
- SB2 Fuse 2 (on fuse panel B)
- SB3 Fuse 3 (on fuse panel B)
- SB5 Fuse 5 (on fuse panel B)
- SB6 Fuse 6 (on fuse panel B)
- SB14 Fuse 14 (on fuse panel B)
- (D78) Positive connection 1 (30a) (in engine compartment wiring harness)



ws = white
 sw = black
 ro = red
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 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
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 or = orange
 rs = pink

Vehicle electrical control module system, Fuse panel B

- J519 Vehicle electrical control module system
- SB Fuse panel B
- SB7 Fuse 7 (on fuse panel B)
- SB8 Fuse 8 (on fuse panel B)
- SB10 Fuse 10 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)

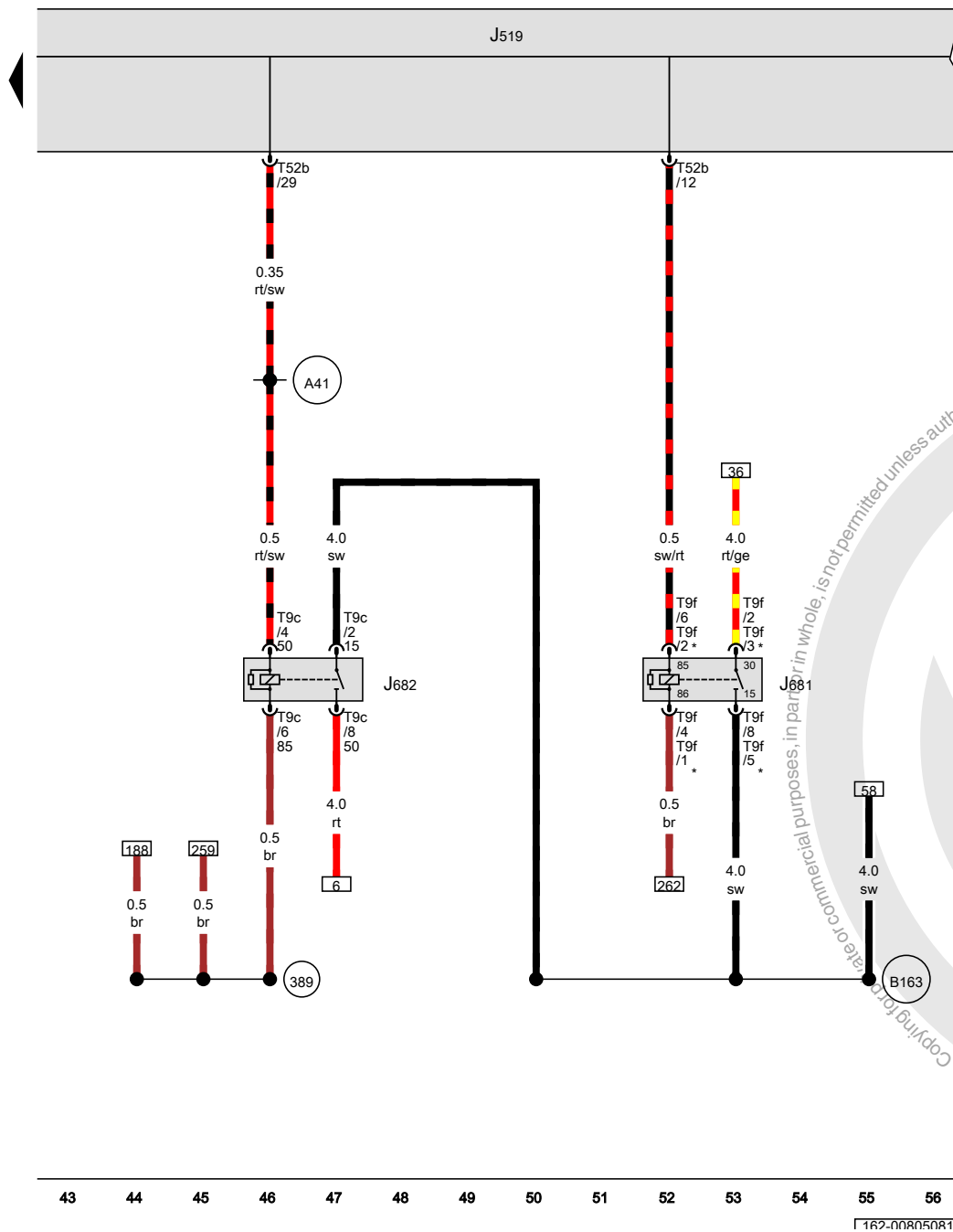


- ws = white
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- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Vehicle electrical control module system, Terminal 15 power supply relay 2, Terminal 50 power supply relay

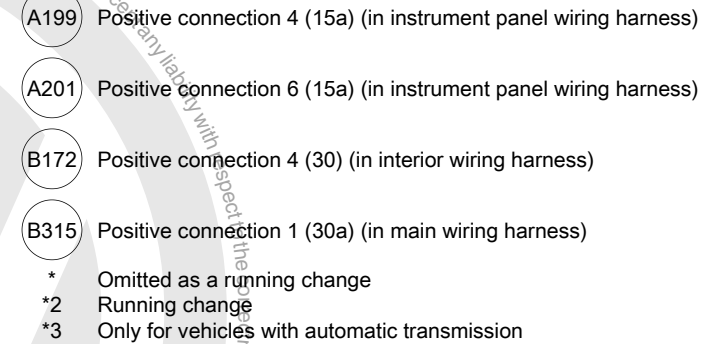
- J519 Vehicle electrical control module system
- J681 Terminal 15 power supply relay 2
- J682 Terminal 50 power supply relay
- T9c 9-pin connector
- T9f 9-pin connector
- T52b 52-pin connector

- 389 Ground connection 24 (in main wiring harness)
- A41 Positive connection (50) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- * Running change



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- ro = red
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- gn = green
- bl = blue
- gr = grey
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- or = orange
- rs = pink

| | |
|------|---------------------------|
| SC | Fuse panel C |
| SC3 | Fuse 3 (on fuse panel C) |
| SC14 | Fuse 14 (on fuse panel C) |
| SC16 | Fuse 16 (on fuse panel C) |
| SC26 | Fuse 26 (on fuse panel C) |
| SC35 | Fuse 35 (on fuse panel C) |

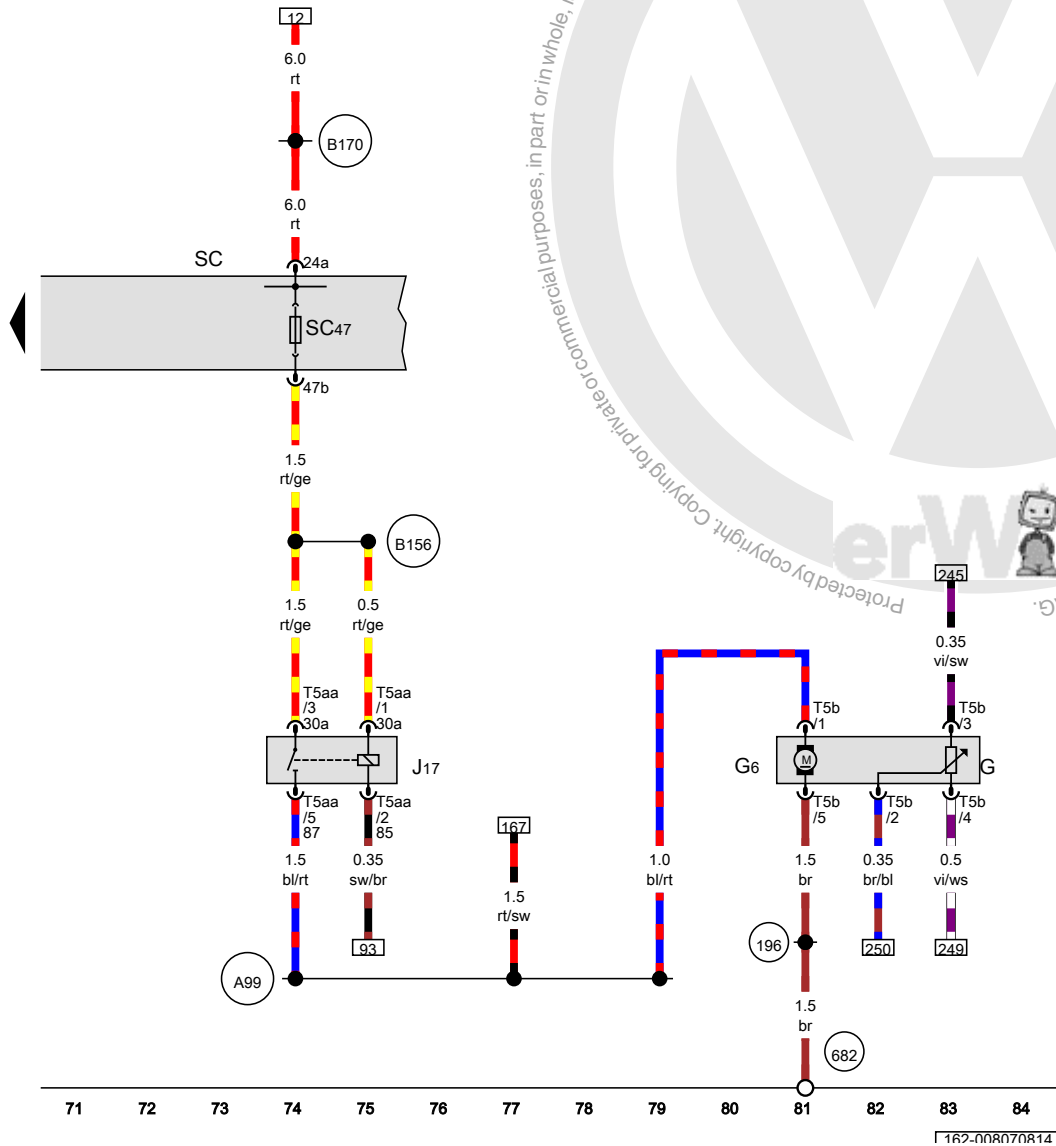
[illegible]

Fuel level sensor, Transfer fuel pump, Fuel pump relay, Fuse panel C

- G Fuel level sensor
- G6 Transfer fuel pump
- J17 Fuel pump relay
- SC Fuse panel C
- SC47 Fuse 47 (on fuse panel C)
- T5aa 5-pin connector
- T5b 5-pin connector

- 196 Ground connection 3 (in rear wiring harness)
- 682 Ground connection 2 in right rear side panel
- A99 Connection 87 (in instrument panel wiring harness) 1
- B156 Positive connection (30a) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)

- ws = white
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- ro = red
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Engine control module

- E45 Cruise control switch
- J527 Steering column electronics control module
- J623 Engine control module
- T16l 16-pin connector
- T94 94-pin connector

131 Ground connection 2 (in engine compartment wiring harness)

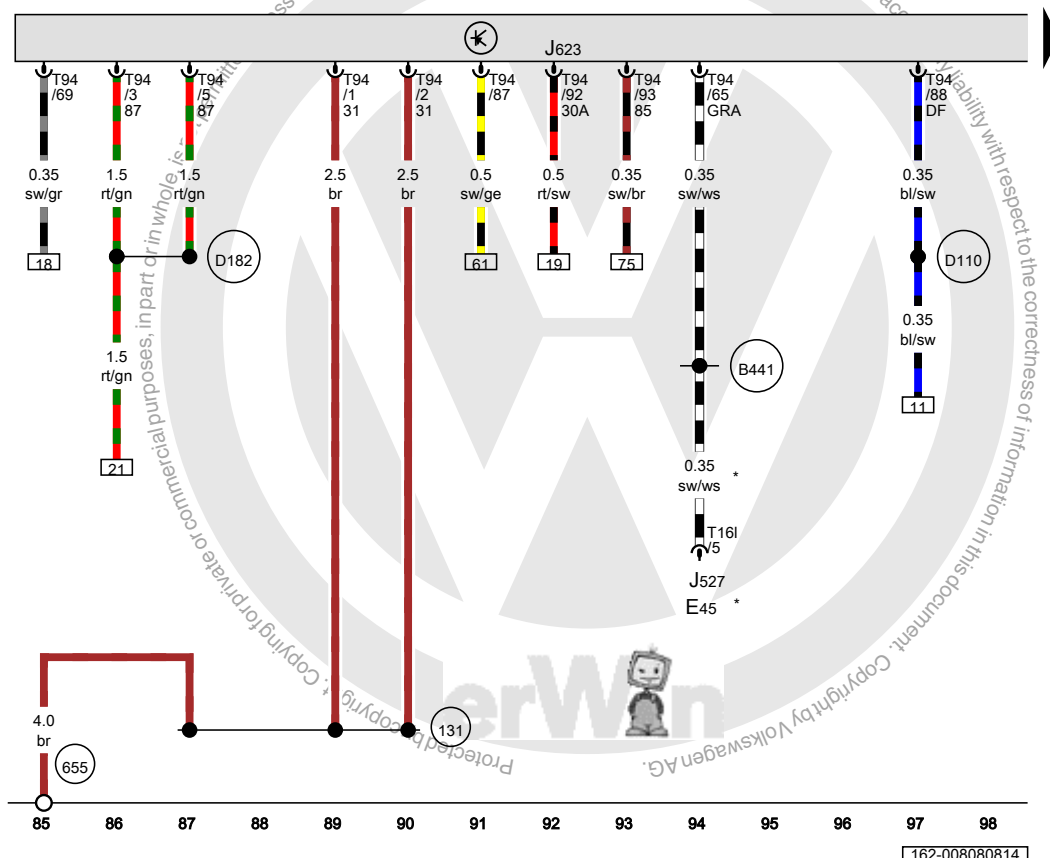
655 Ground connection on left headlamp

B441 Cruise control connection (in main wiring harness)

D110 Connection 8 (in engine compartment wiring harness)

D182 Connection 3 (87a) (in engine compartment wiring harness)

* Only for vehicles with cruise control



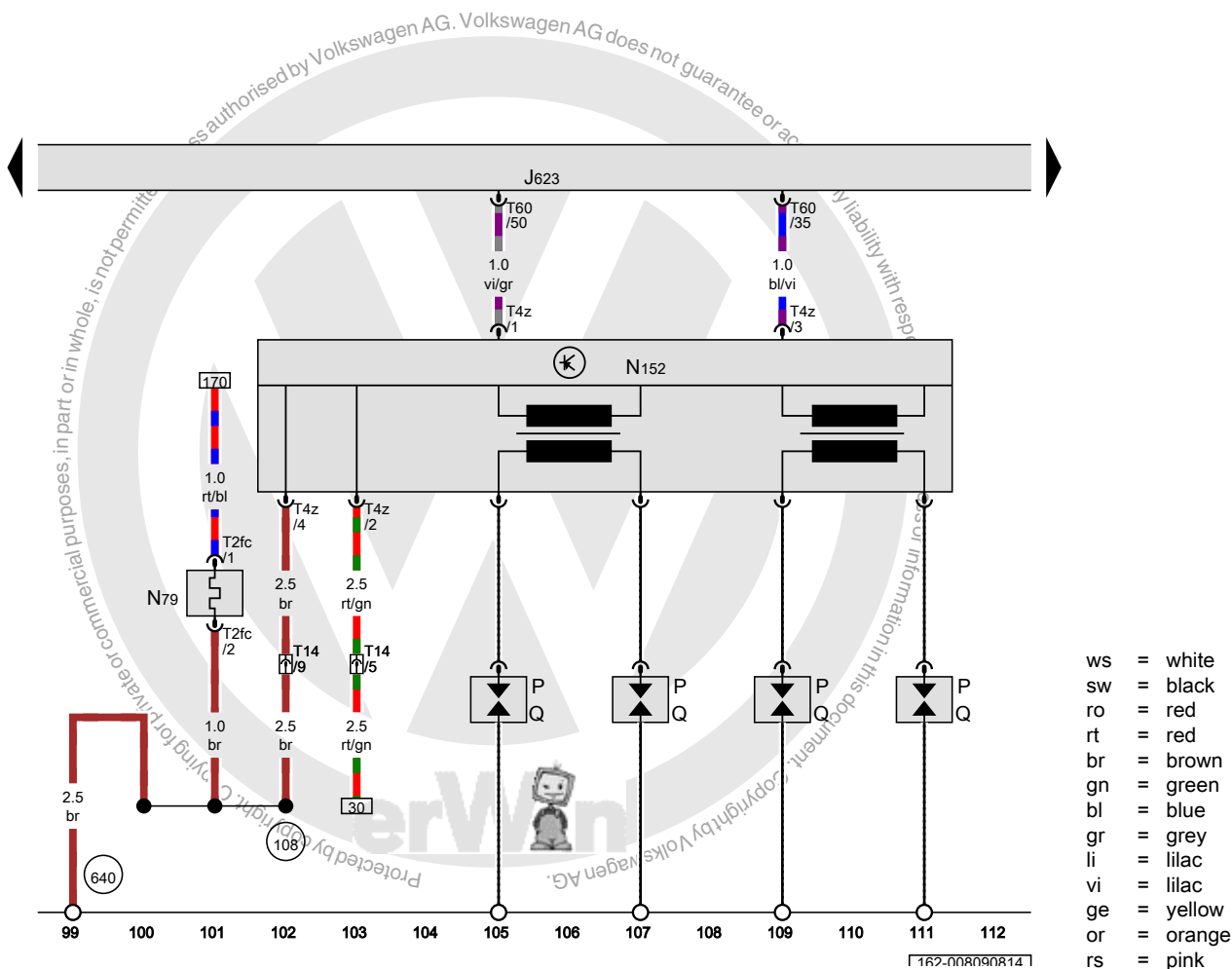
- ws = white
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- bl = blue
- gr = grey
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- or = orange
- rs = pink

Engine control module, Spark plug connectors, Spark plugs

- J623 Engine control module
- N79 Positive crankcase ventilation heating element
- N152 Ignition coil
- P Spark plug connectors
- Q Spark plugs
- T2fc Double connector
- T4z 4-pin connector
- T14 14-pin connector, near the battery
- T60 60-pin connector

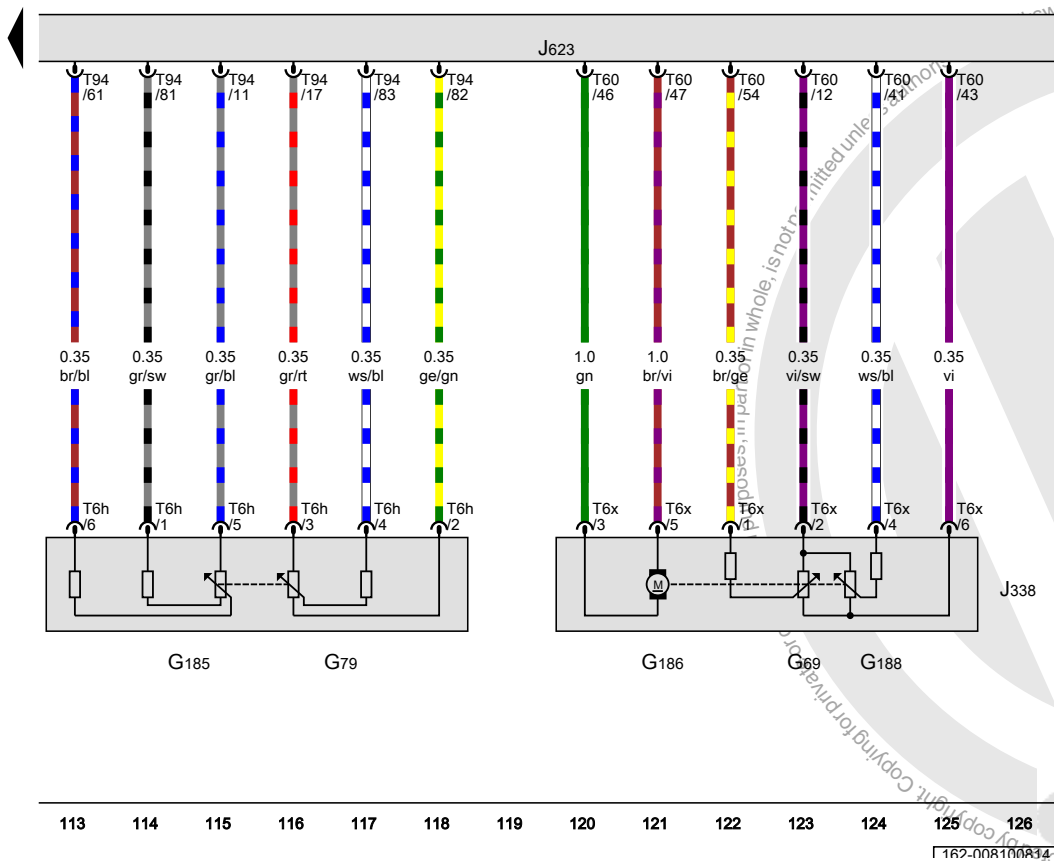
108 Ground connection 2 (in left front wiring harness)

640 Ground connection 2 in engine compartment, left



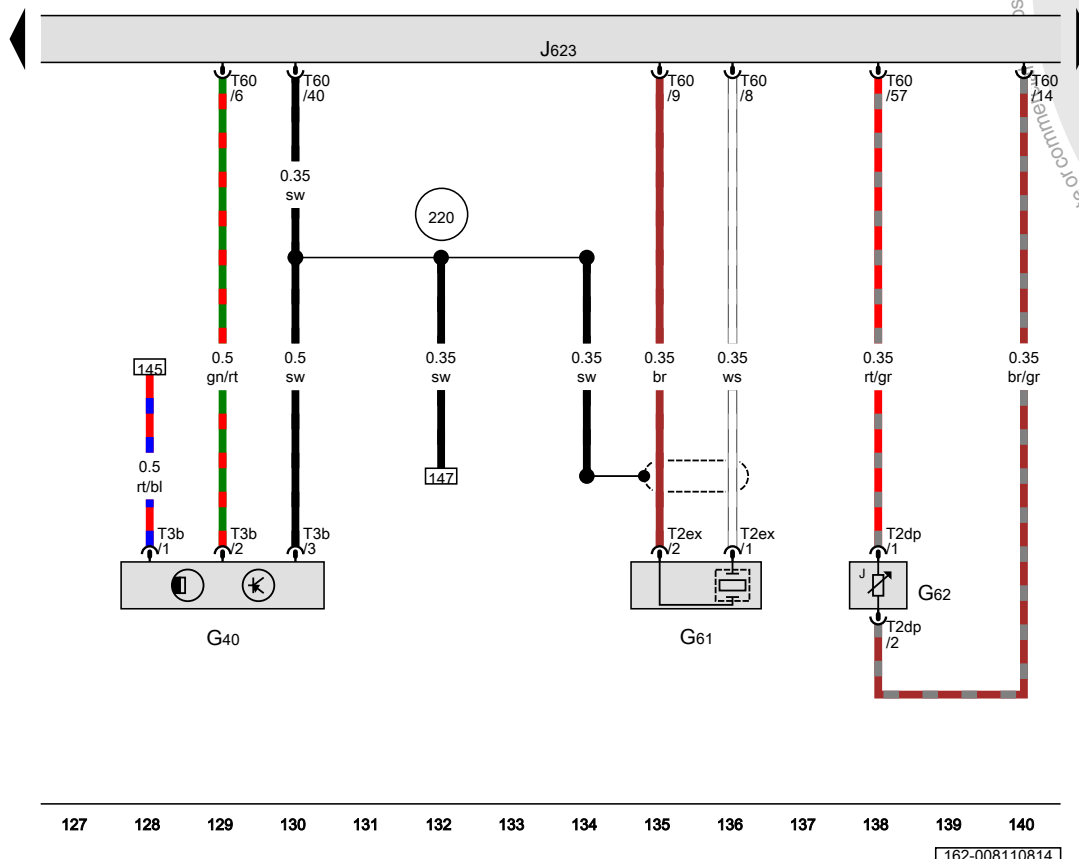
Accelerator pedal position sensor, Accelerator pedal position sensor 2, EPC throttle drive, Throttle valve control module, Engine control module

- G69 Throttle position sensor
- G79 Accelerator pedal position sensor
- G185 Accelerator pedal position sensor 2
- G186 EPC throttle drive
- G188 EPC throttle drive angle sensor 2
- J338 Throttle valve control module
- J623 Engine control module
- T6h 6-pin connector
- T6x 6-pin connector
- T60 60-pin connector
- T94 94-pin connector



Camshaft position sensor, Knock sensor 1, Engine coolant temperature sensor, Engine control module

- G40 Camshaft position sensor
- G61 Knock sensor 1
- G62 Engine coolant temperature sensor
- J623 Engine control module
- T2dp Double connector
- T2ex Double connector
- T3b 3-pin connector
- T60 60-pin connector
- 220 Sensor ground connection (in engine wiring harness)



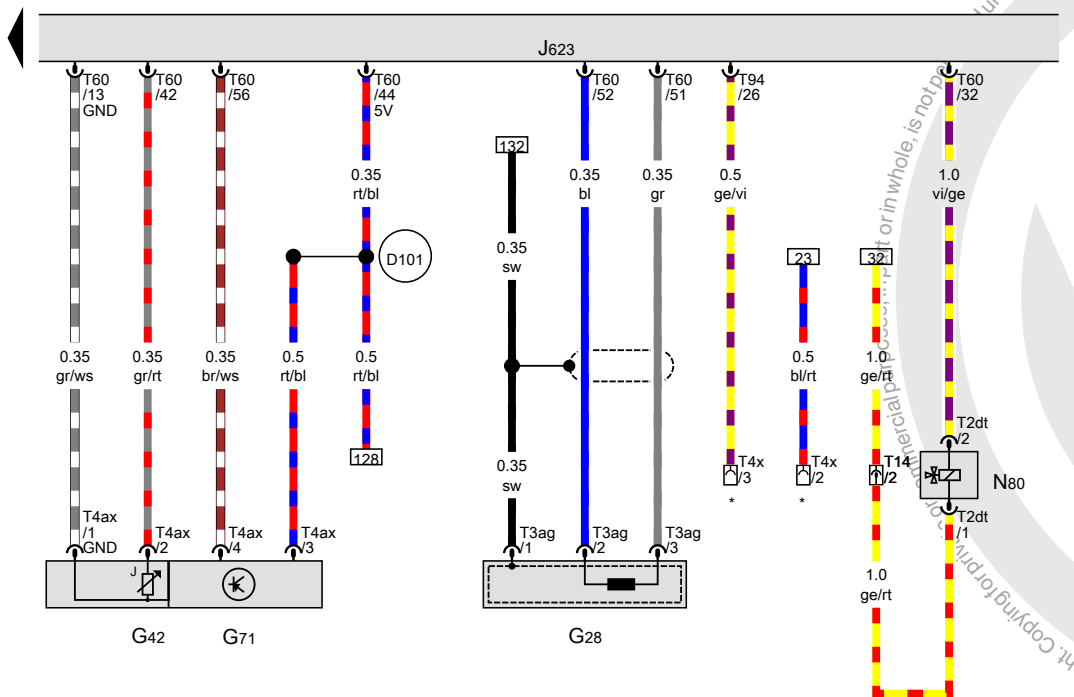
- ws = white
- sw = black
- ro = red
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- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
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- or = orange
- rs = pink

Engine speed sensor, Intake air temperature sensor,
Manifold absolute pressure sensor, Engine control module,
EVAP canister purge regulator valve 1

- G28 Engine speed sensor
- G42 Intake air temperature sensor
- G71 Manifold absolute pressure sensor
- J623 Engine control module
- N80 EVAP canister purge regulator valve 1
- T2dt Double connector
- T3ag 3-pin connector
- T4ax 4-pin connector
- T4x 4-pin connector
- T14 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

D101 Connection 1 (in engine compartment wiring harness)

* Coolant fan connection

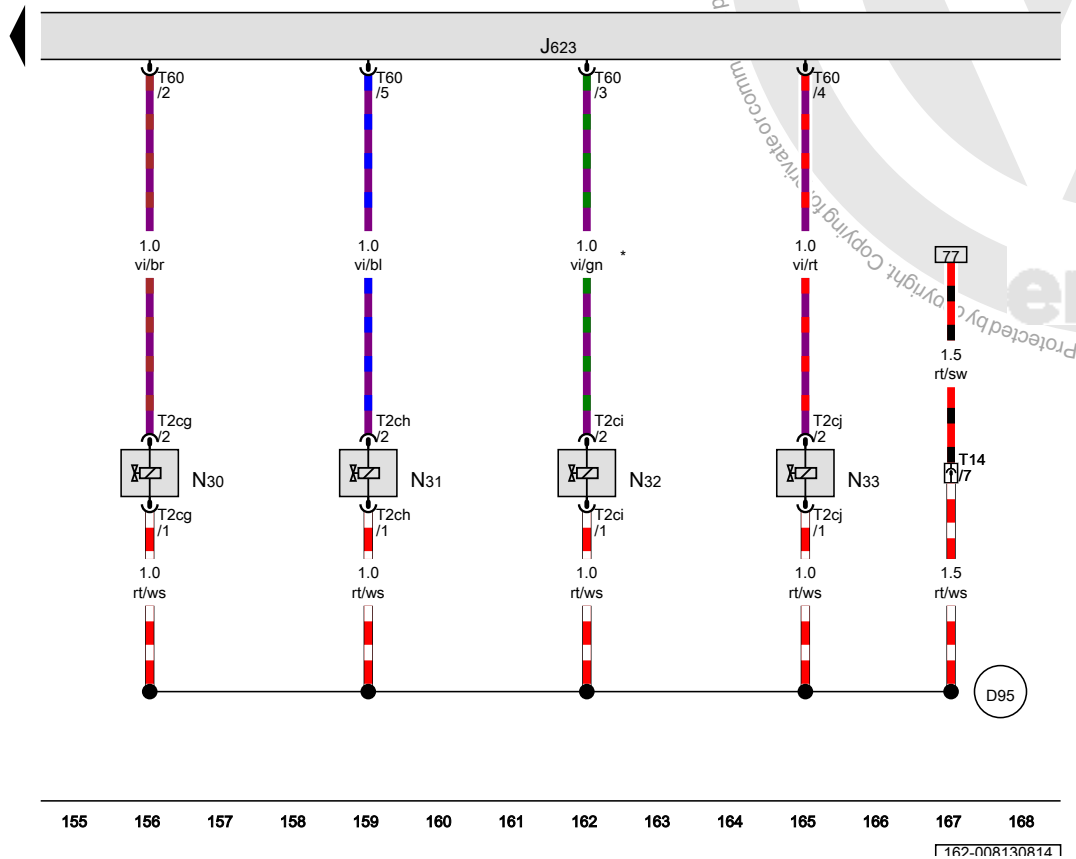


141 142 143 144 145 146 147 148 149 150 151 152 153 154

162-008120814

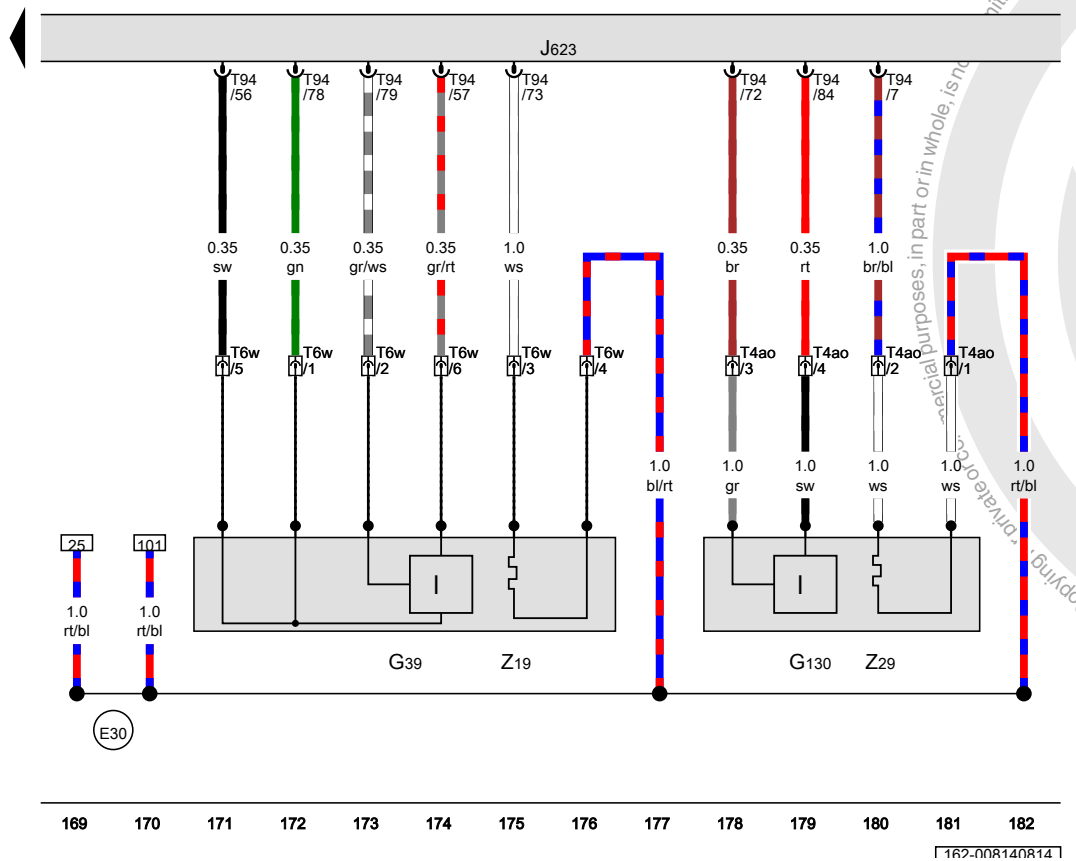
Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector

- J623 Engine control module
- N30 Cylinder 1 fuel injector
- N31 Cylinder 2 fuel injector
- N32 Cylinder 3 fuel injector
- N33 Cylinder 4 fuel injector
- T2cg Double connector
- T2ch Double connector
- T2ci Double connector
- T2cj Double connector
- T14 14-pin connector, near the battery
- T60 60-pin connector
- D95 Injector connection (in engine compartment wiring harness)
- * The color of the wires depends on vehicle equipment



Heated oxygen sensor, Oxygen sensor after three way catalytic converter, Engine control module, Oxygen sensor heater, Heater for oxygen sensor 1 after catalytic converter

- G39 Heated oxygen sensor
- G130 Oxygen sensor after three way catalytic converter
- J623 Engine control module
- T4ao 4-pin connector
- T6w 6-pin connector
- T94 94-pin connector
- Z19 Oxygen sensor heater
- Z29 Heater for oxygen sensor 1 after catalytic converter
- E30 Connection 87a (in engine wiring harness)



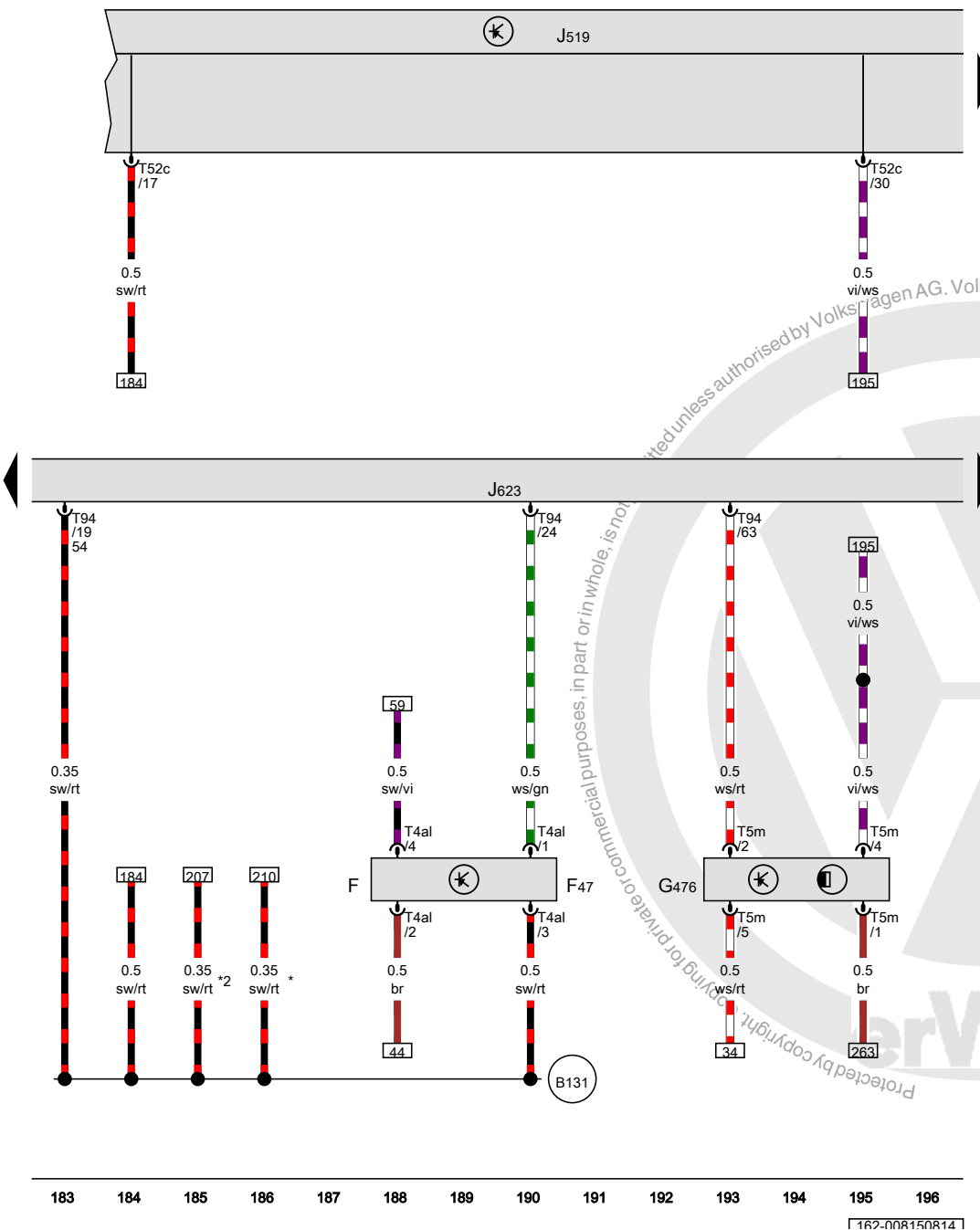
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- rs = pink

Brake lamp switch, Brake pedal switch, Clutch position sensor, Vehicle electrical control module system, Engine control module

- F Brake lamp switch
- F47 Brake pedal switch
- G476 Clutch position sensor
- J519 Vehicle electrical control module system
- J623 Engine control module
- T4al 4-pin connector
- T5m 5-pin connector
- T52c 52-pin connector
- T94 94-pin connector

B131 Connection 54 (in interior wiring harness)

- * Only for vehicles with ABS and ESP
- *2 Only for vehicles with ABS without ESP



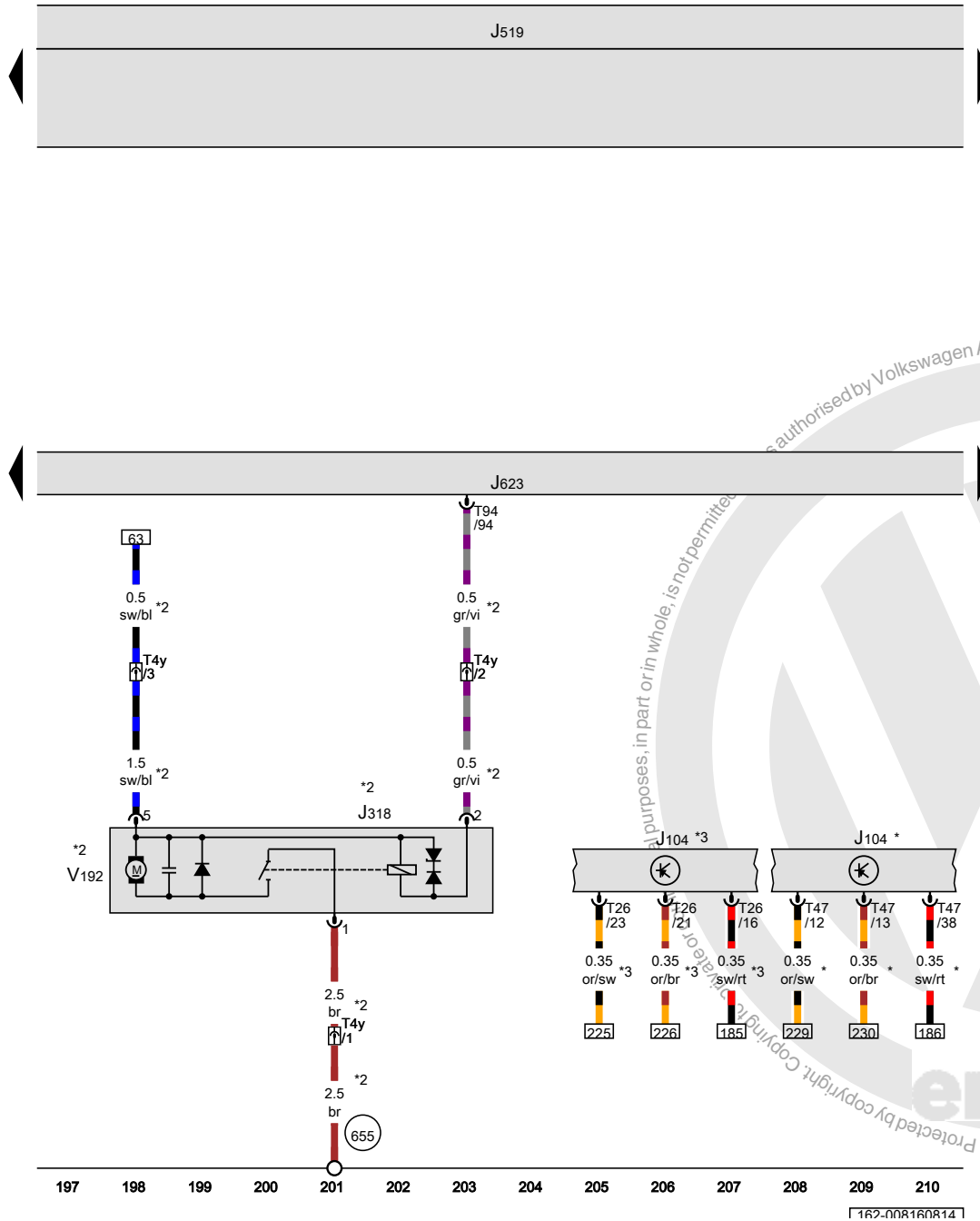
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- rn = red
- br = brown
- gn = green
- bl = blue
- gr = grey
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- vi = lilac
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- or = orange
- rs = pink

Vacuum pump relay, Vehicle electrical control module system, Engine control module, Brake system vacuum pump

- J104 ABS control module
- J318 Vacuum pump relay
- J519 Vehicle electrical control module system
- J623 Engine control module
- T4y 4-pin connector
- T26 26-pin connector
- T47 47-pin connector
- T94 94-pin connector
- V192 Brake system vacuum pump

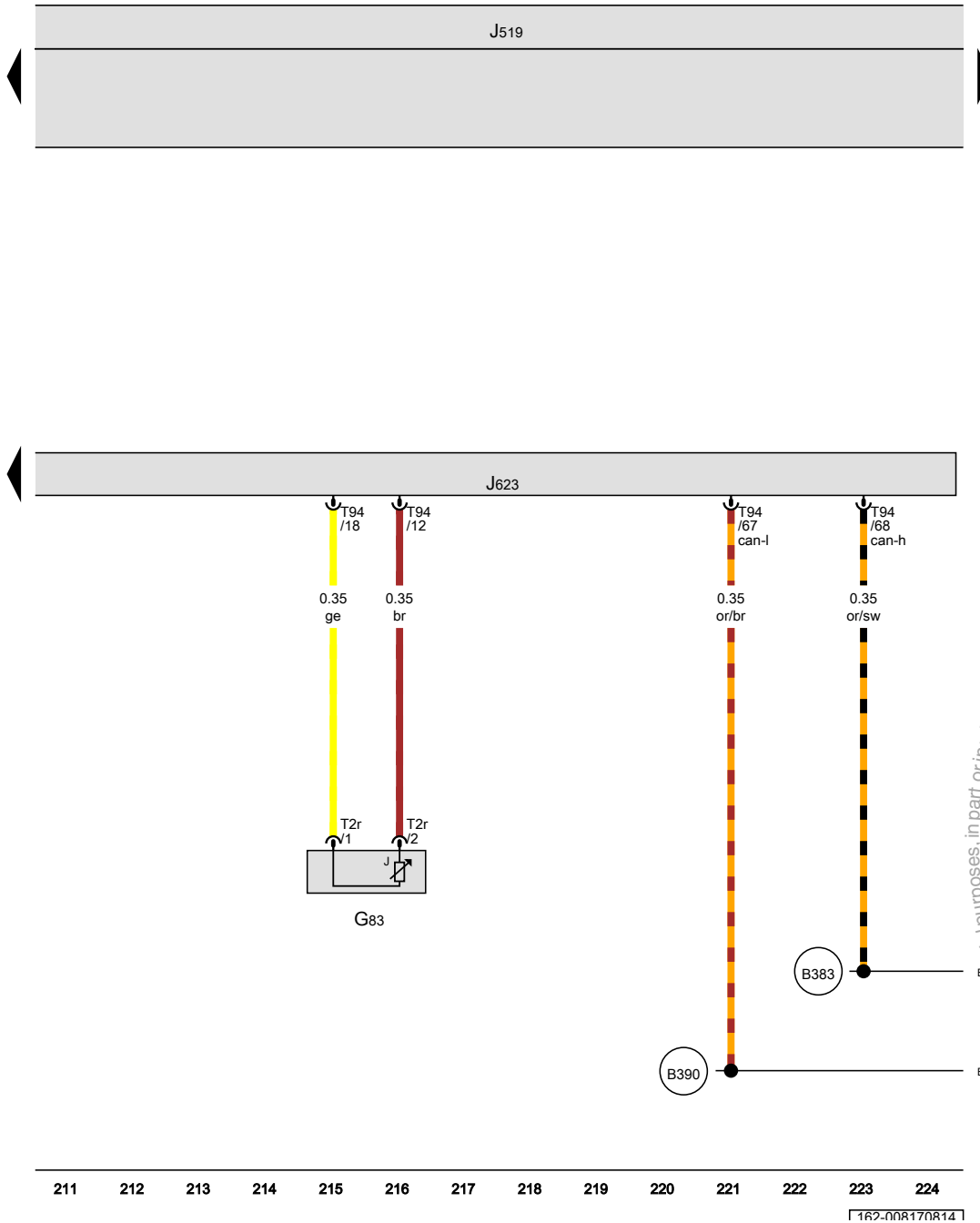
655 Ground connection on left headlamp

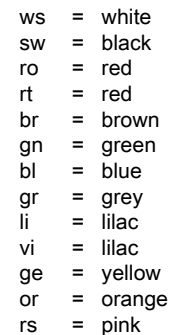
- * Only for vehicles with ABS and ESP
- *2 Only for vehicles with automatic transmission
- *3 Only for vehicles with ABS without ESP



Engine coolant temperature sensor on radiator outlet,
Vehicle electrical control module system, Engine control
module

- G83 Engine coolant temperature sensor on radiator outlet
- J519 Vehicle electrical control module system
- J623 Engine control module
- T2r Double connector
- T94 94-pin connector
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)





| | |
|------|--|
| J285 | Instrument cluster control module |
| J519 | Vehicle electrical control module system |
| J533 | Data bus on board diagnostic interface |
| T16 | 16-pin connector |
| T20 | 20-pin connector |
| T32 | 32-pin connector |
| T52c | 52-pin connector |

- | | |
|-------------|---|
| B383 | Powertrain CAN bus high connection 1 (in main wiring harness) |
| B390 | Powertrain CAN bus low connection 1 (in main wiring harness) |
| B397 | Comfort system CAN bus high connection 1 (in main wiring harness) |
| B406 | Comfort system CAN bus low connection 1 (in main wiring harness) |
| * | Diagnostic connector |
| *2 | Only for vehicles with ABS and ESP |
| *3 | Only for vehicles with ABS without ESP |

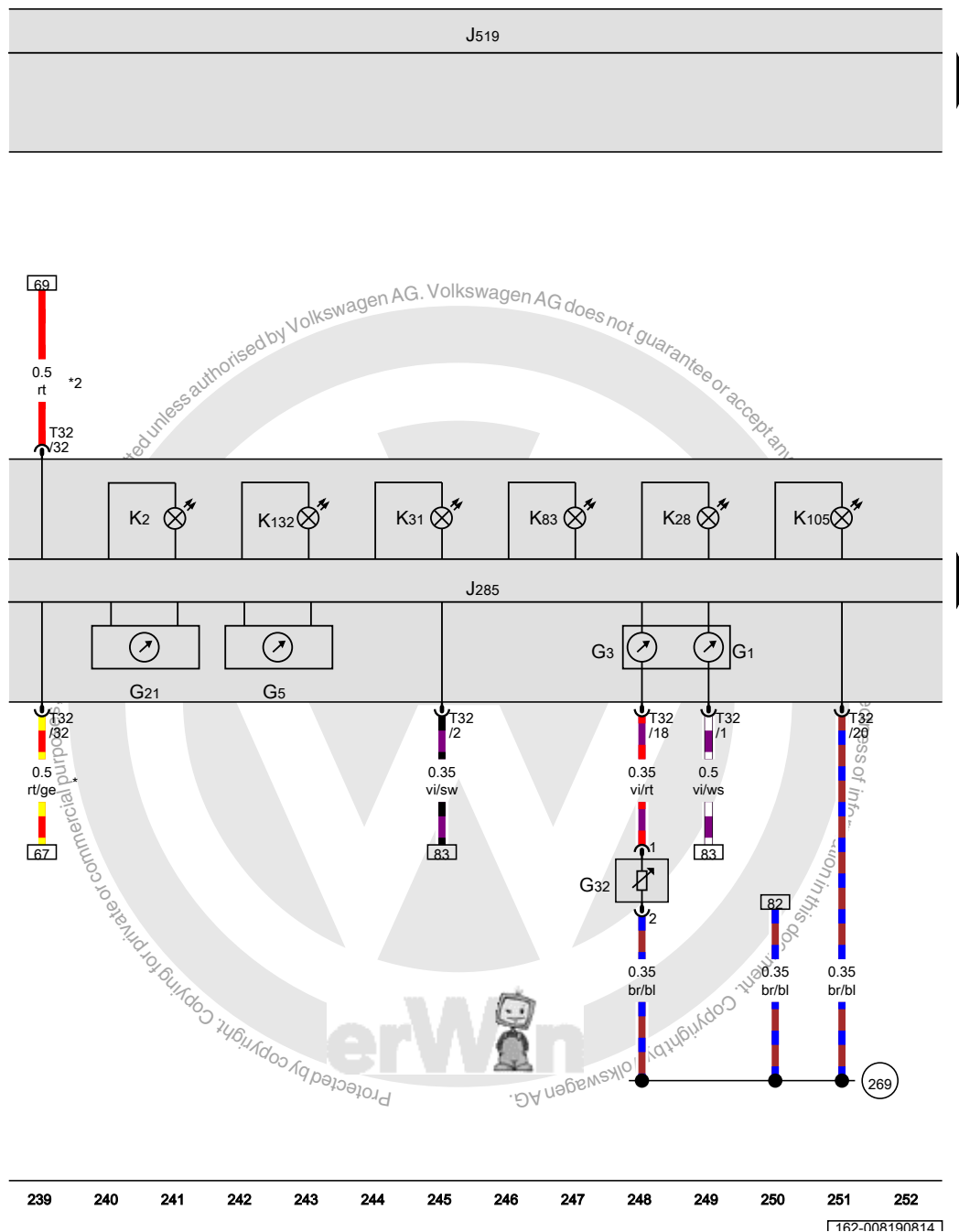
Fuel gauge, Engine coolant temperature gauge, Tachometer, Speedometer, Instrument cluster control module, Vehicle electrical control module system, Generator indicator lamp, Engine coolant level/temperature indicator lamp, Cruise control indicator lamp, Low fuel level indicator lamp, Electronic power control malfunction indicator lamp

- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine coolant level sensor
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- K2 Generator indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K31 Cruise control indicator lamp
- K83 Malfunction indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- T32 32-pin connector

269 Sensor ground connection 1 (in instrument panel wiring harness)

- * Omitted as a running change
- *2 Running change

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- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Oil pressure switch, Instrument cluster control module,
Vehicle electrical control module system

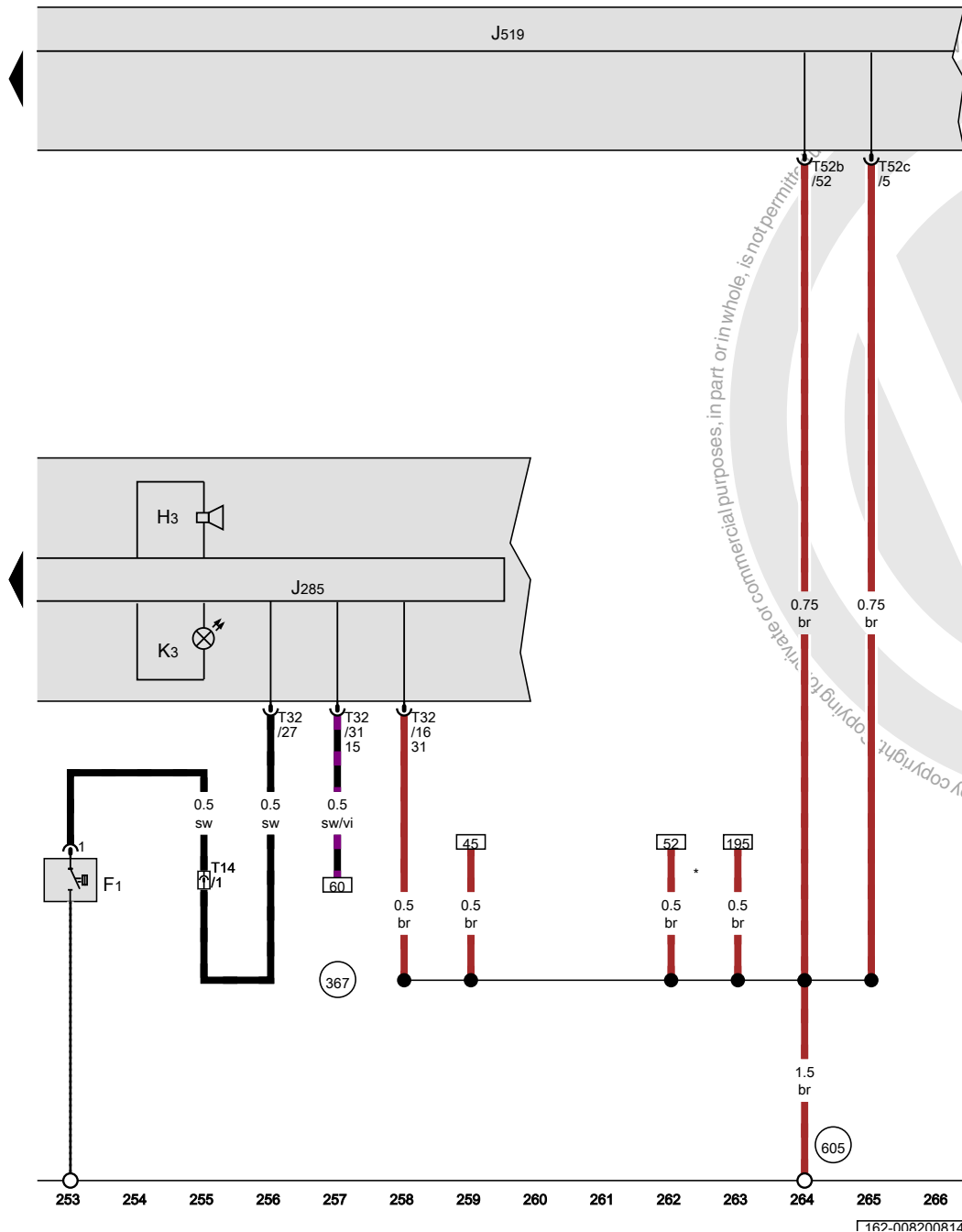
- F1 Oil pressure switch
- H3 Warning buzzer and tone
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- K3 Oil pressure indicator lamp
- T14 14-pin connector
- T32 32-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

367 Ground connection 2 (in main wiring harness)

605 Ground connection on upper steering column

* Running change

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
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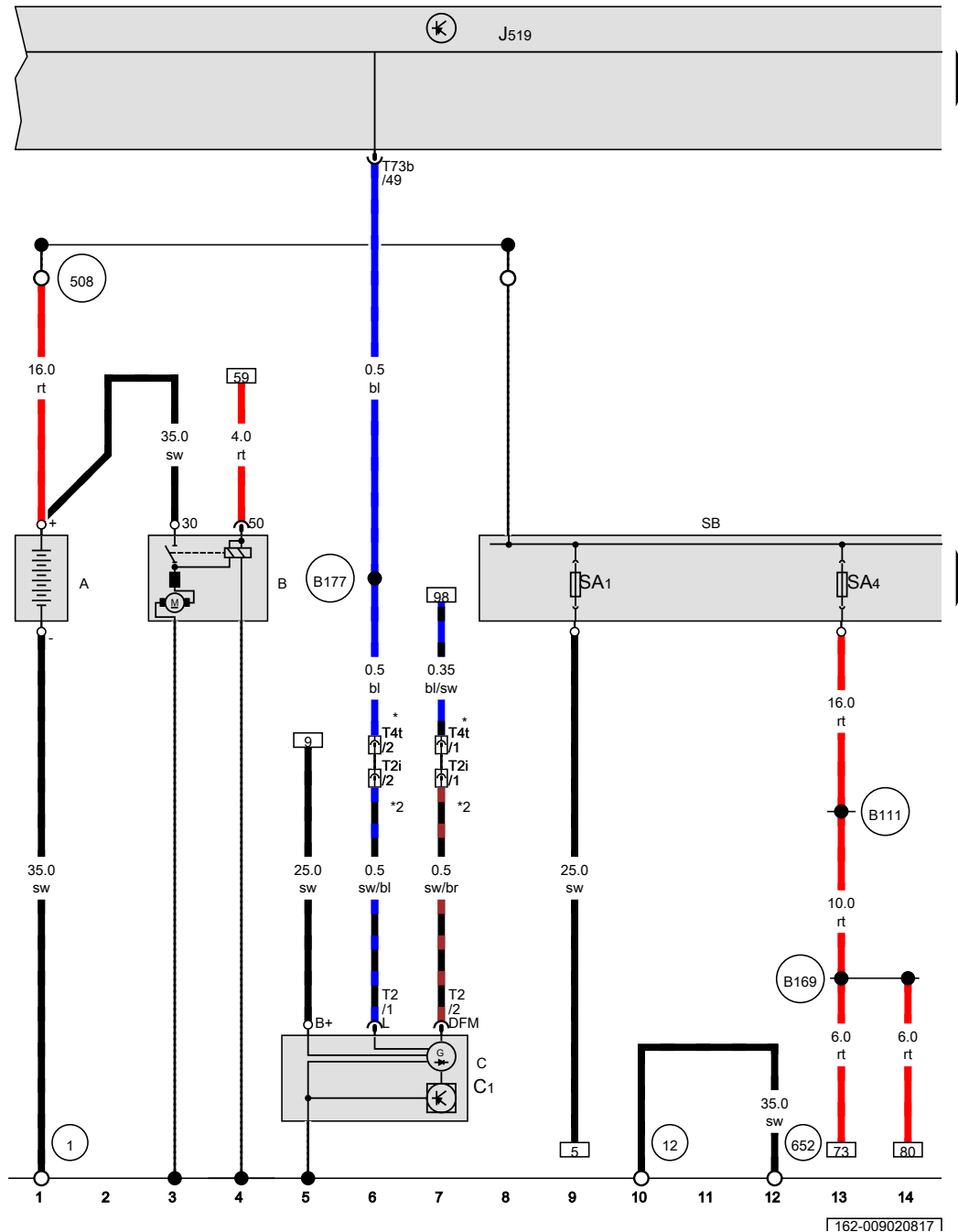
162-008200814

2.5L Gasoline Engine , CBTA,CBUA,(AW0)

From April 2010



Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse Panel B



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
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 rs = pink

- A Battery
- B Starter
- C Generator
- C1 Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T73b 73-Pin Connector

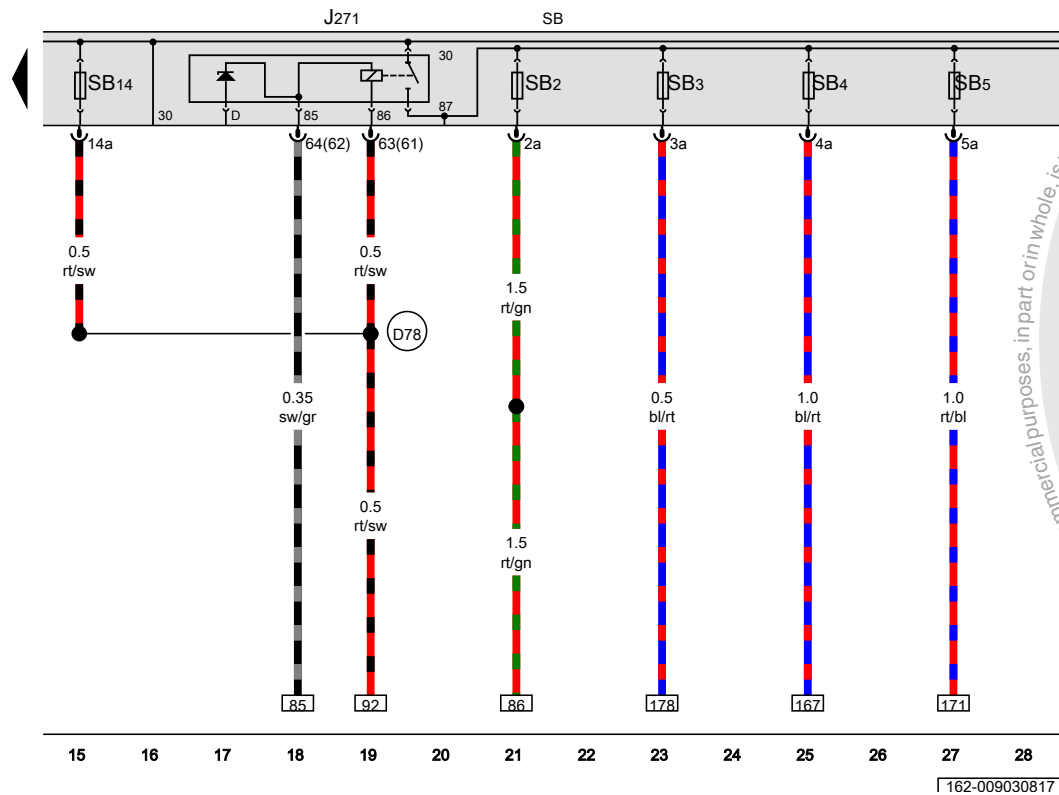
- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine/Motor Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)

- * For Vehicles with A/C System
- *2 For Vehicles Without an A/C System

**Motronic Engine Control Module Power Supply Relay,
Vehicle Electrical System Control Module, Fuse Panel B,
Fuse 14 (On Fuse Panel B)**

- J271 Motronic Engine Control Module Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB4 Fuse 4 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)

(D78) Positive Connection 1 (30a) (in Engine/Motor Compartment Wiring Harness)



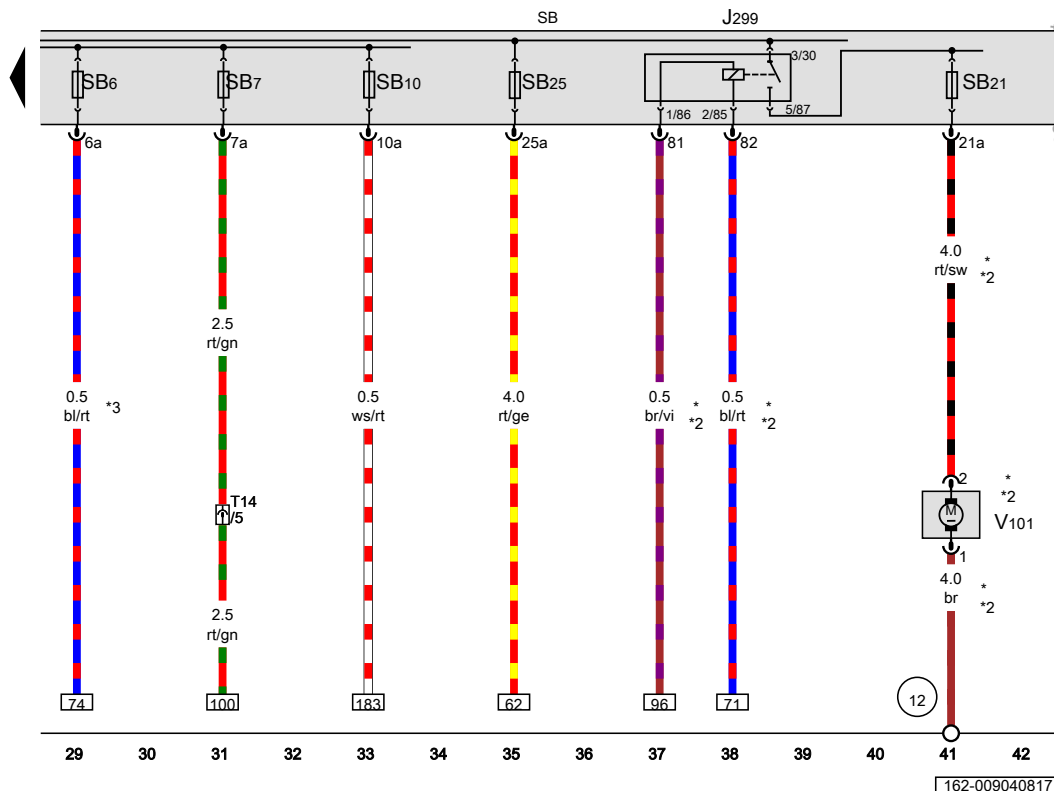
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or = orange
rs = pink

Secondary Air Injection Pump Relay, Vehicle Electrical System Control Module, Fuse Panel B, Secondary Air Injection Pump Motor

- J299 Secondary Air Injection Pump Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB6 Fuse 6 (On Fuse Panel B)
- SB7 Fuse 7 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB21 Fuse 21 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T14 14-Pin Connector, Near the Battery
- V101 Secondary Air Injection Pump Motor

12 Ground Connection in Engine/Motor Compartment, Left

- * Depending on Equipment
- *2 For USA Only
- *3 Running Change



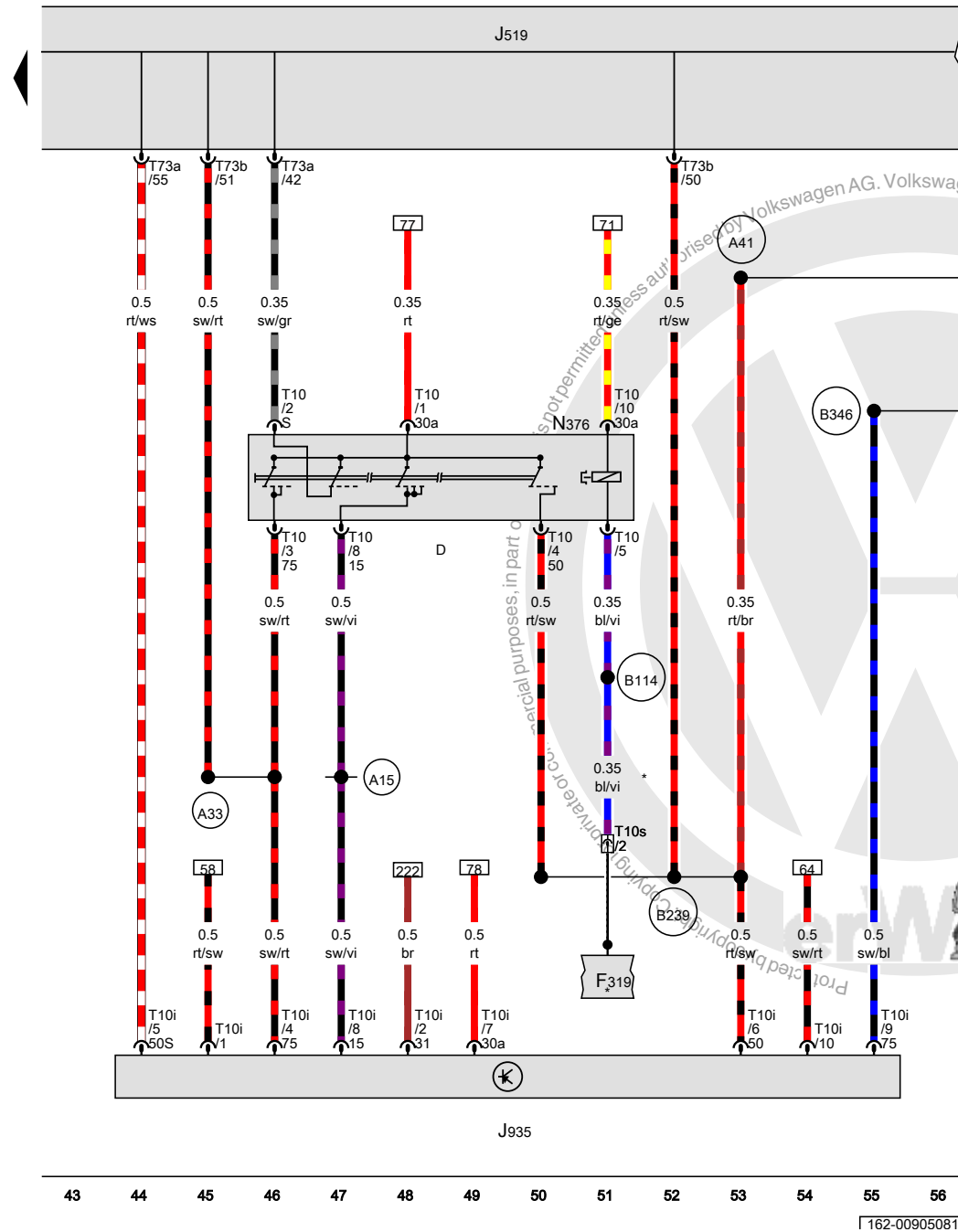
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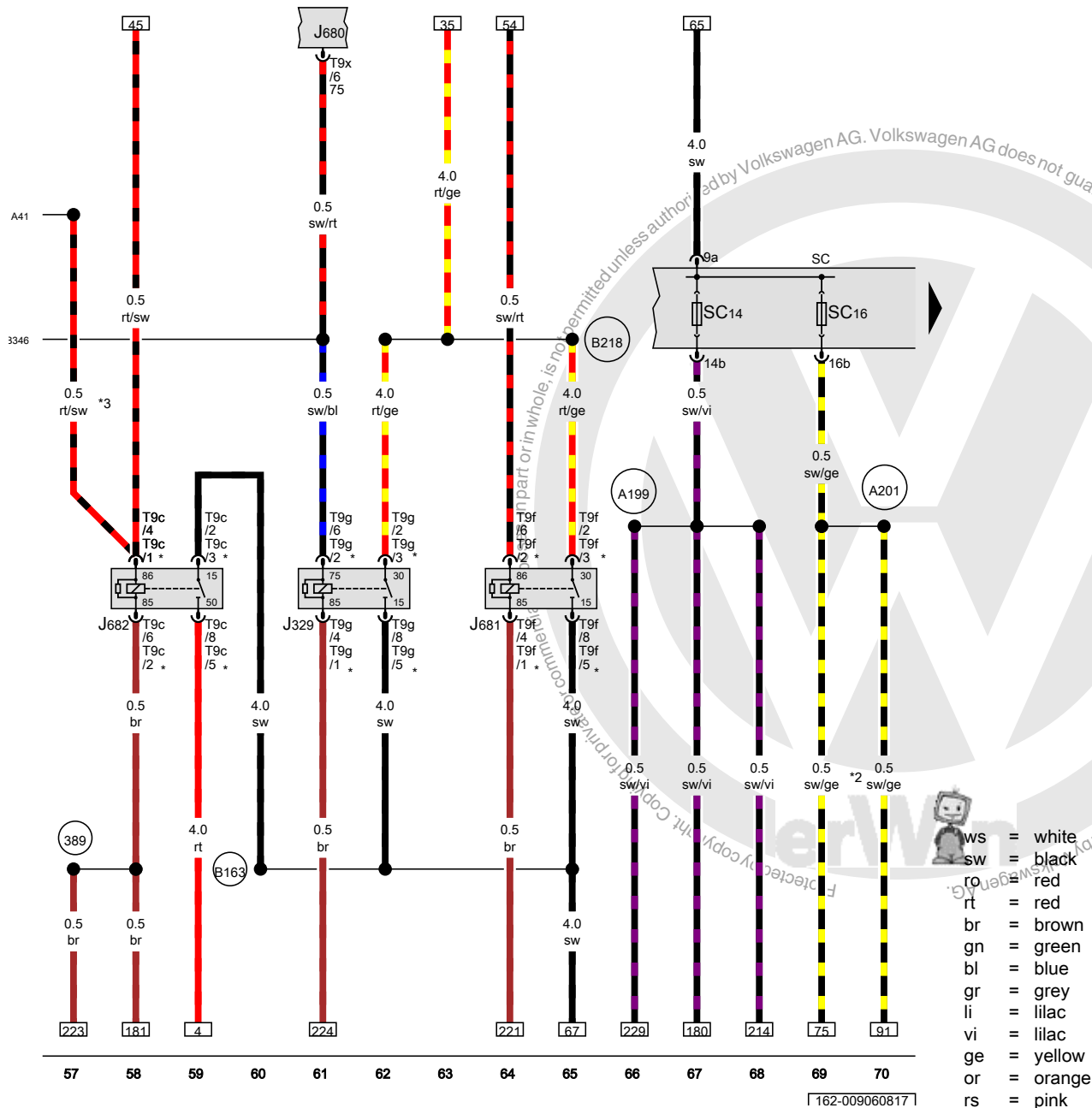
Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box

- D Ignition/Starter Switch
- F319 Selector Lever Park Position Lock Switch
- J519 Vehicle Electrical System Control Module
- J935 Converter Box
- N376 Ignition Switch Key Lock Solenoid
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T10s 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- A15 Plus Connection (15) (in Instrument Cluster Wiring Harness)
- A33 Connection 75 (in Instrument Panel Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- B114 Lock Switch Connection (in Interior Wiring Harness)
- B239 Positive Connection 1 (50) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * For Vehicles with Automatic Transmission

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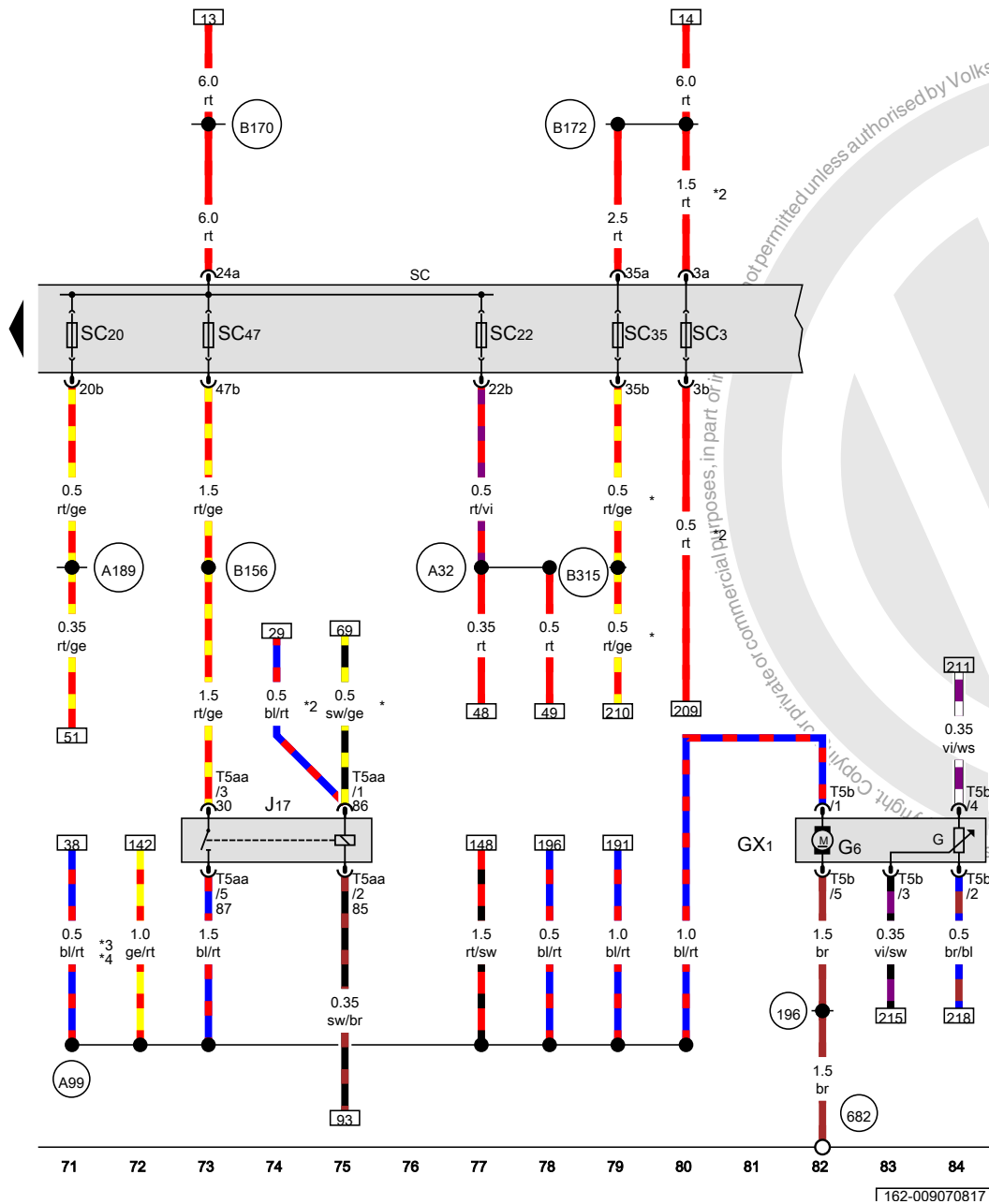




Terminal 15 Power Supply Relay, Terminal 15 Power Supply Relay 2, Terminal 50 Power Supply Relay, Fuse Panel C

- J329 Terminal 15 Power Supply Relay
- J680 Terminal 75 Power Supply Relay 1
- J681 Terminal 15 Power Supply Relay 2
- J682 Terminal 50 Power Supply Relay
- SC Fuse Panel C
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- T9c 9-Pin Connector
- T9f 9-Pin Connector
- T9g 9-Pin Connector
- T9x 9-Pin Connector
- 389 Ground Connection 24 (in Main Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * Running Change
- *2 Omitted as a Running Change
- *3 Depending on Equipment

Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Fuel Pump Relay, Fuse Panel C



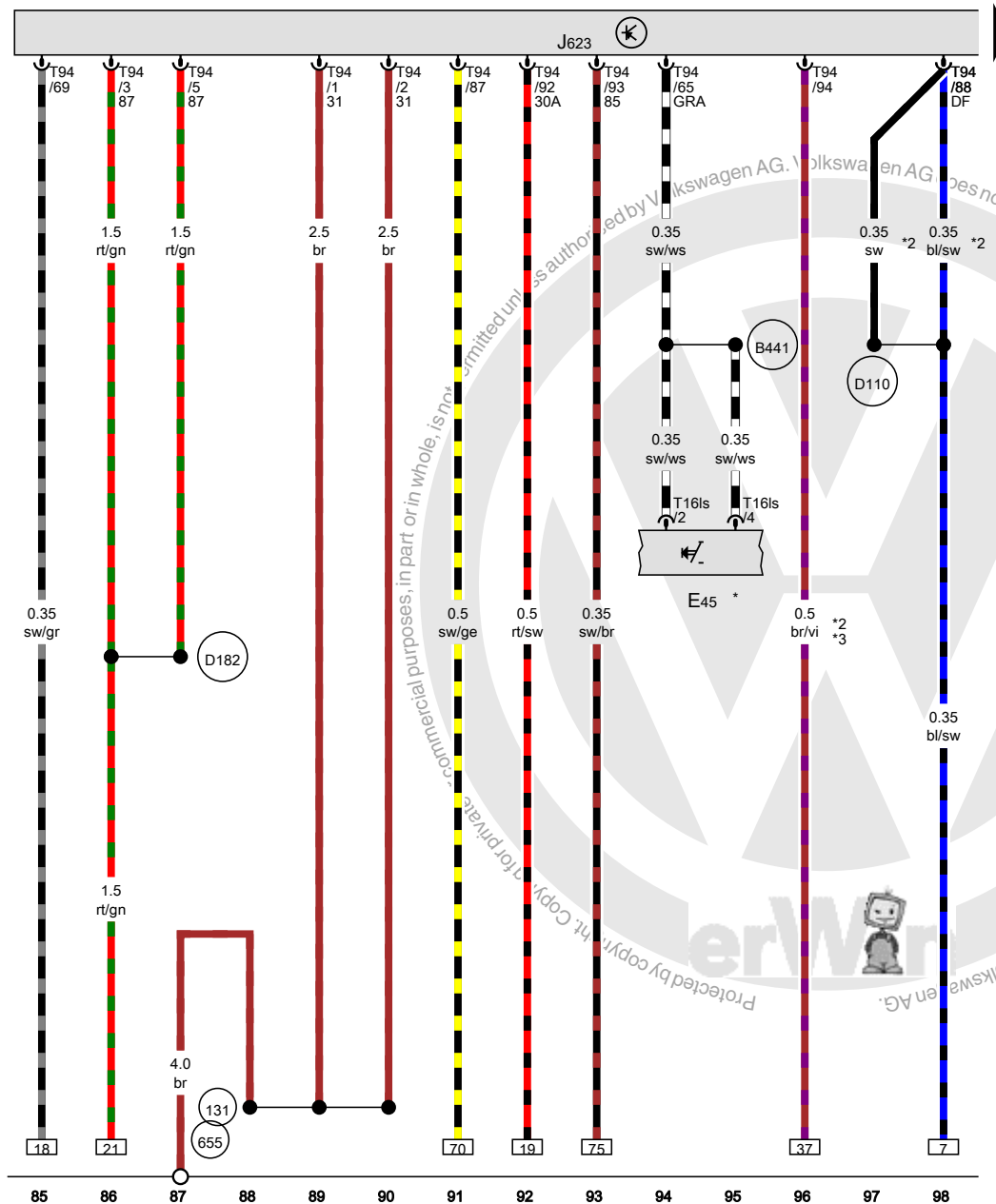
- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J17 Fuel Pump Relay
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC20 Fuse 20 (On Fuse Panel C)
- SC22 Fuse 22 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- SC47 Fuse 47 (On Fuse Panel C)
- T5aa 5-Pin Connector
- T5b 5-Pin Connector
- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- A32 Positive Connection (30) (in Instrument Panel Wiring Harness)
- A99 Connection 87 (in Instrument Panel Wiring Harness) 1
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- B156 Positive Connection 30a (in Interior Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)

- * Omitted as a Running Change
- *2 Running Change
- *3 Depending on Equipment
- *4 For USA Only

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Engine/Motor Control Module

- E45 Cruise Control Switch
- J623 Engine/Motor Control Module
- T16ls 16-Pin Connector
- T94 94-Pin Connector
- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- B441 Cruise Control Connection (in Main Wiring Harness)
- D110 Connection 8 (in Engine/Motor Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine/Motor Compartment Wiring Harness)
- * For Vehicles with Cruise Control System
- *2 Depending on Equipment
- *3 For USA Only



ws = white
 sw = black
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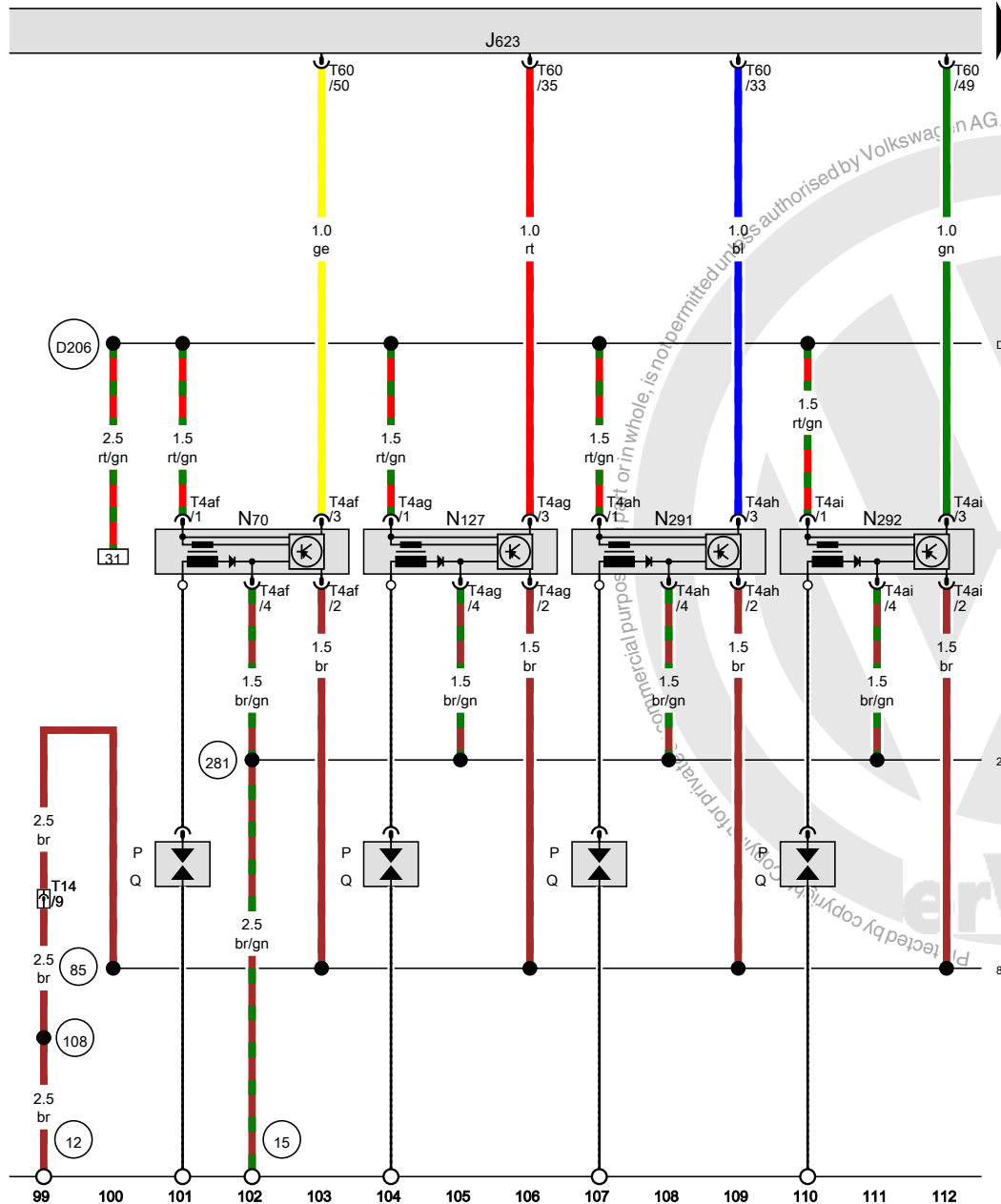
162-009080817

Engine/Motor Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors, Spark Plugs

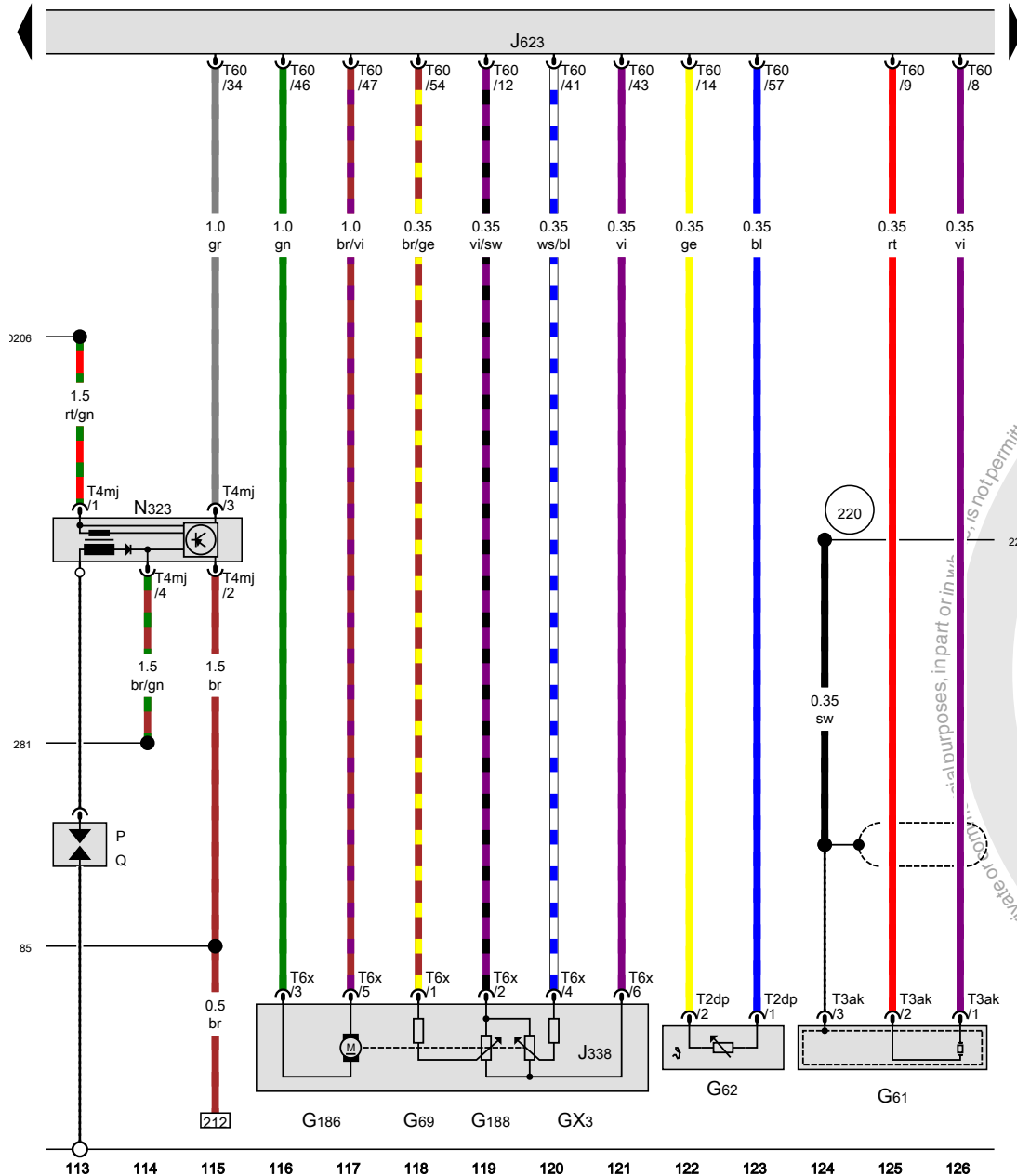
- J623 Engine/Motor Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector

- 12 Ground Connection in Engine/Motor Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine/Motor Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

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- sw = black
- ro = red
- rt = red
- br = brown
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- li = lilac
- vi = lilac
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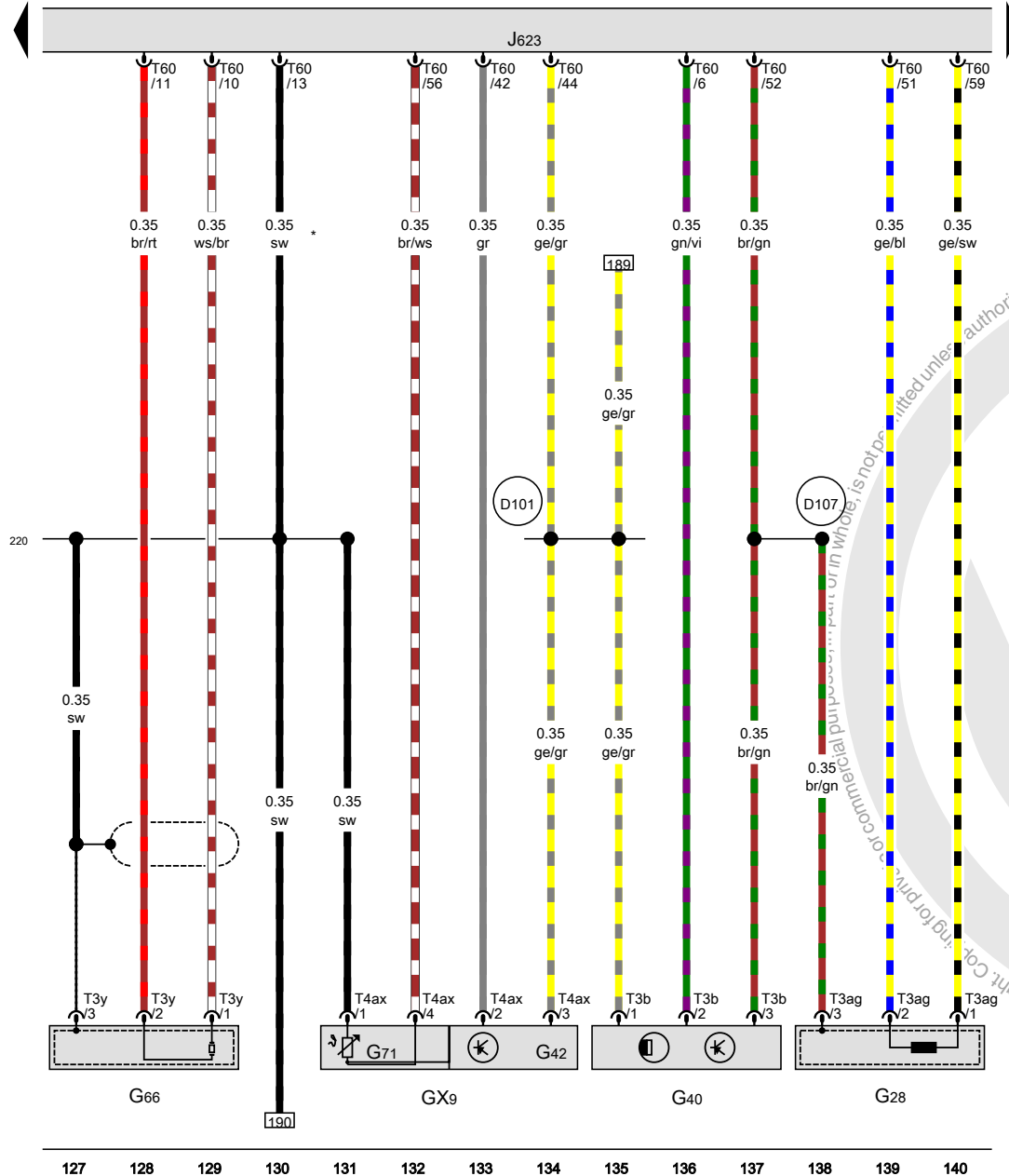
Throttle Valve Control Module, Knock Sensor 1, Engine Coolant Temperature Sensor, EPC Throttle Drive, Engine/Motor Control Module, Ignition Coil 5 with Power Output Stage, Spark Plug Connectors

- GX3 Throttle Valve Control Module
- G61 Knock Sensor 1
- G62 Engine Coolant Temperature Sensor
- G69 Throttle Position Sensor
- G186 EPC Throttle Drive
- G188 EPC Throttle Drive Angle Sensor 2
- J338 Throttle Valve Control Module
- J623 Engine/Motor Control Module
- N323 Ignition Coil 5 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2dp 2-Pin Connector
- T3ak 3-Pin Connector
- T4mj 4-Pin Connector
- T6x 6-Pin Connector
- T60 60-Pin Connector
- 85 Ground Connection 1 (in Engine/Motor Compartment Wiring Harness)
- 220 Sensor Ground Connection (in Engine Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
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- gr = grey
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- or = orange
- rs = pink

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Intake Manifold Sensor, Engine Speed Sensor, Camshaft Position Sensor, Intake Air Temperature Sensor, Knock Sensor 2, Engine/Motor Control Module



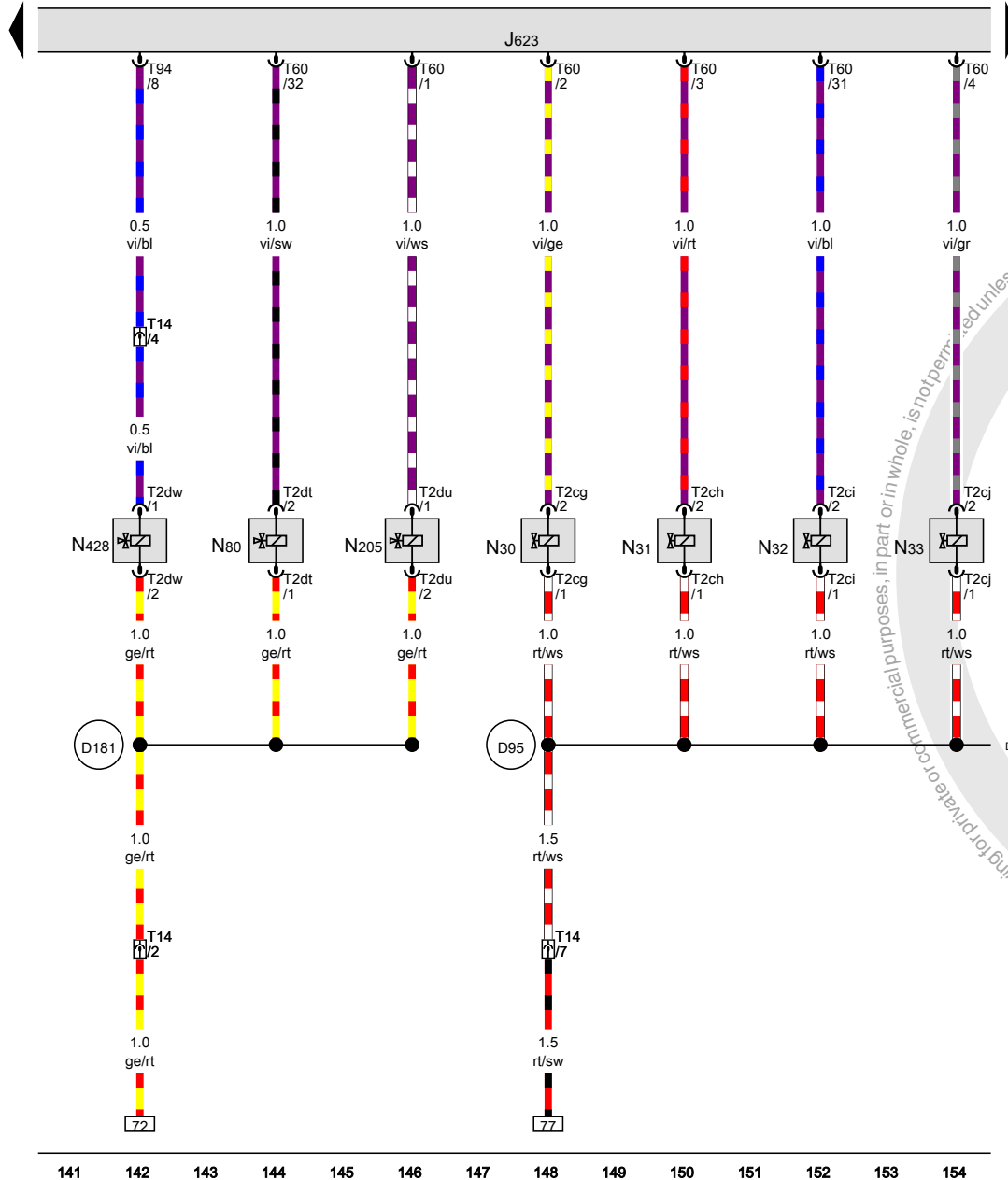
- GX9 Intake Manifold Sensor
- G28 Engine Speed Sensor
- G40 Camshaft Position Sensor
- G42 Intake Air Temperature Sensor
- G66 Knock Sensor 2
- G71 Manifold Absolute Pressure Sensor
- J623 Engine/Motor Control Module
- T3ag 3-Pin Connector
- T3b 3-Pin Connector
- T3y 3-Pin Connector
- T4ax 4-Pin Connector
- T60 60-Pin Connector

- 220 Sensor Ground Connection (in Engine Wiring Harness)
- D101 Connection 1 (in Engine/Motor Compartment Wiring Harness)
- D107 Connection 5 (in Engine/Motor Compartment Wiring Harness)
- * For USA Only

- ws = white
- sw = black
- ro = red
- rt = red
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- rs = pink

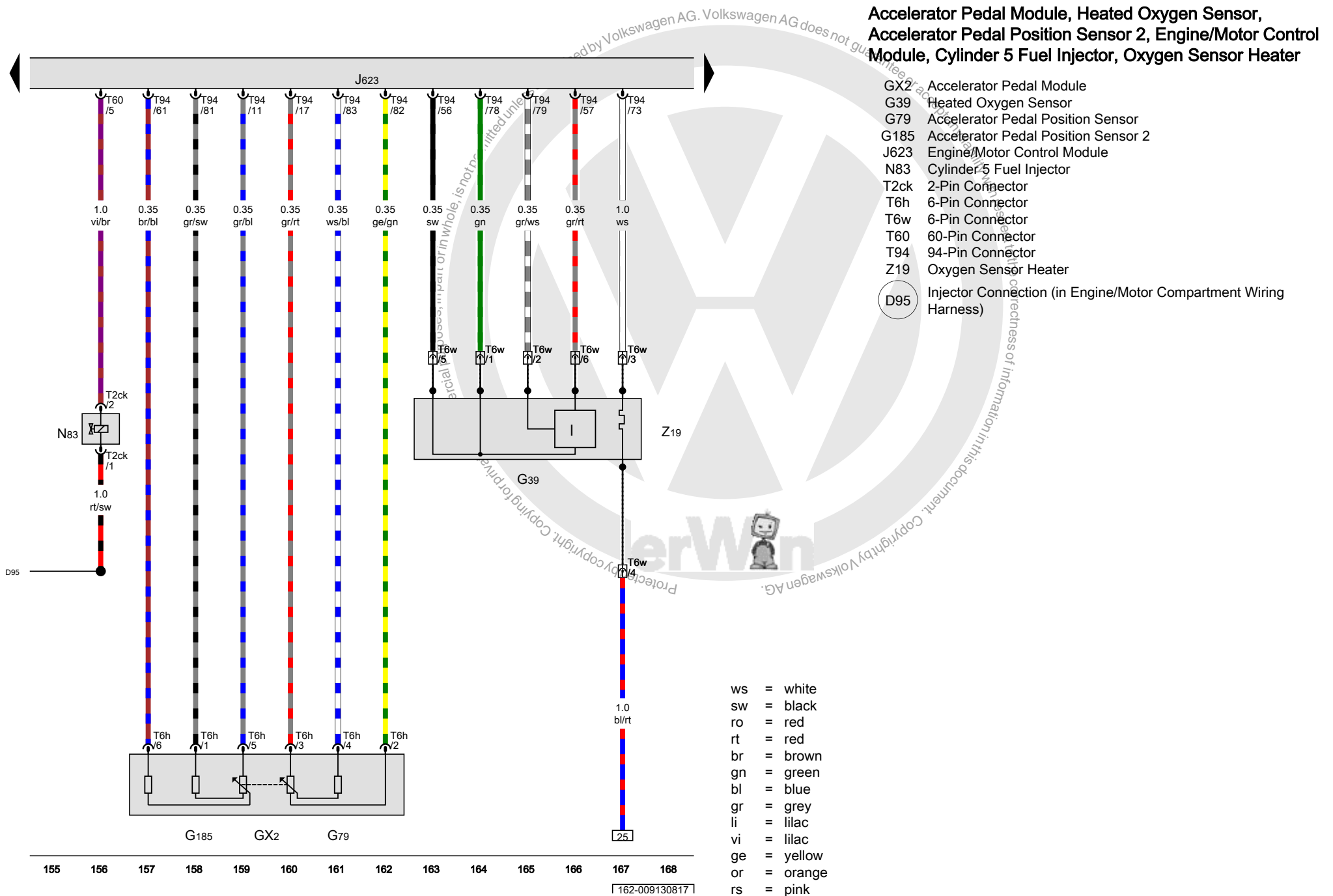
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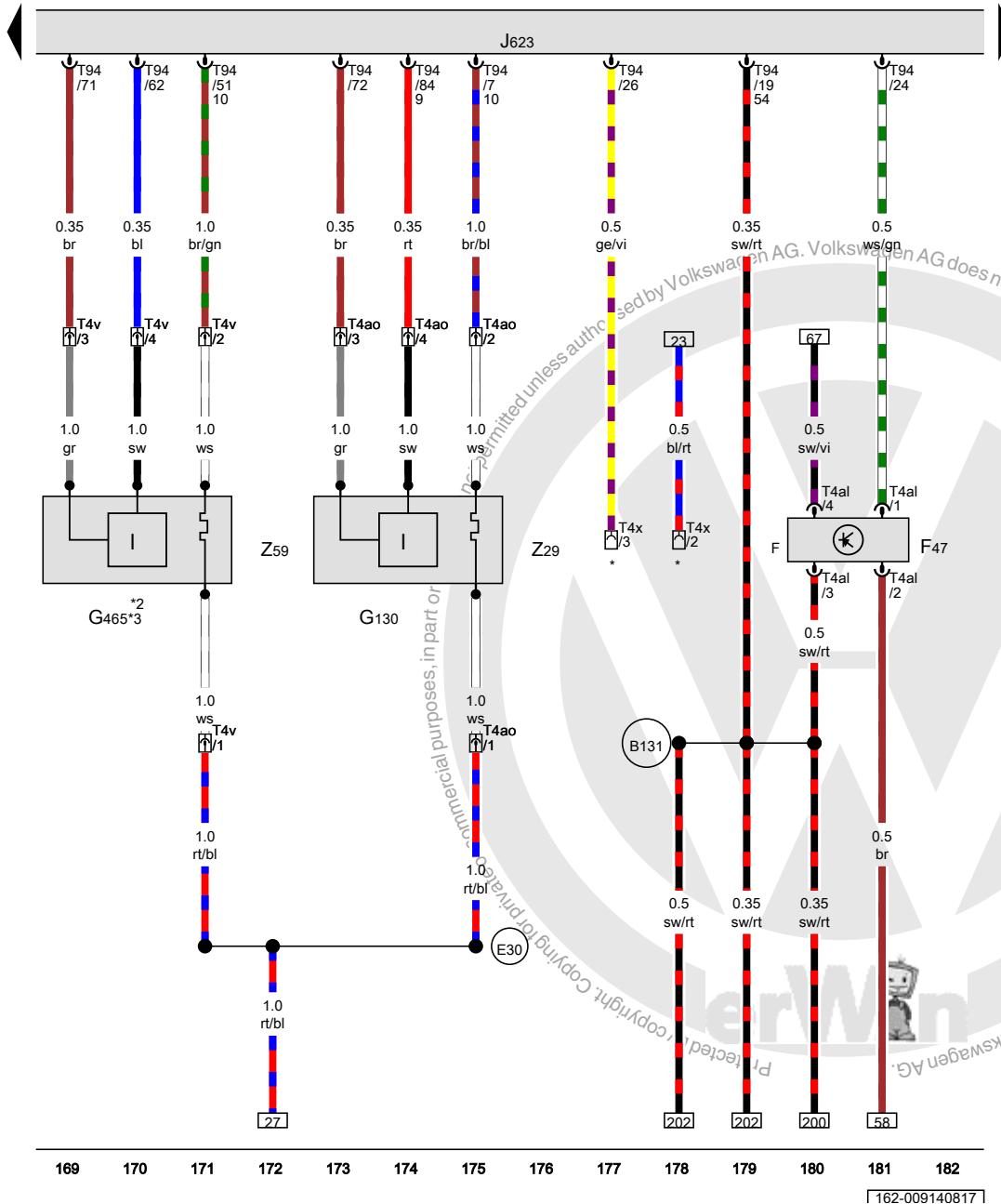
Engine/Motor Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, EVAP Canister Purge Regulator Valve 1, Camshaft Adjustment Valve 1



- J623 Engine/Motor Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N80 EVAP Canister Purge Regulator Valve 1
- N205 Camshaft Adjustment Valve 1
- N428 Oil Pressure Regulation Valve
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dw 2-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector
- T94 94-Pin Connector
- D95 Injector Connection (in Engine/Motor Compartment Wiring Harness)
- D181 Connection 2 (87A) (in Engine/Motor Compartment Wiring Harness)
- * For Vehicles with Flexible Service Interval Display

- ws = white
- sw = black
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- br = brown
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Brake Lamp Switch, Brake Pedal Switch, Oxygen Sensor After Catalytic Converter, Center Oxygen Sensor for Bank 1 Catalytic Converter, Engine/Motor Control Module, Heater for Oxygen Sensor 1 After Catalytic Converter, Heater for Oxygen Sensor Center Catalytic Converter

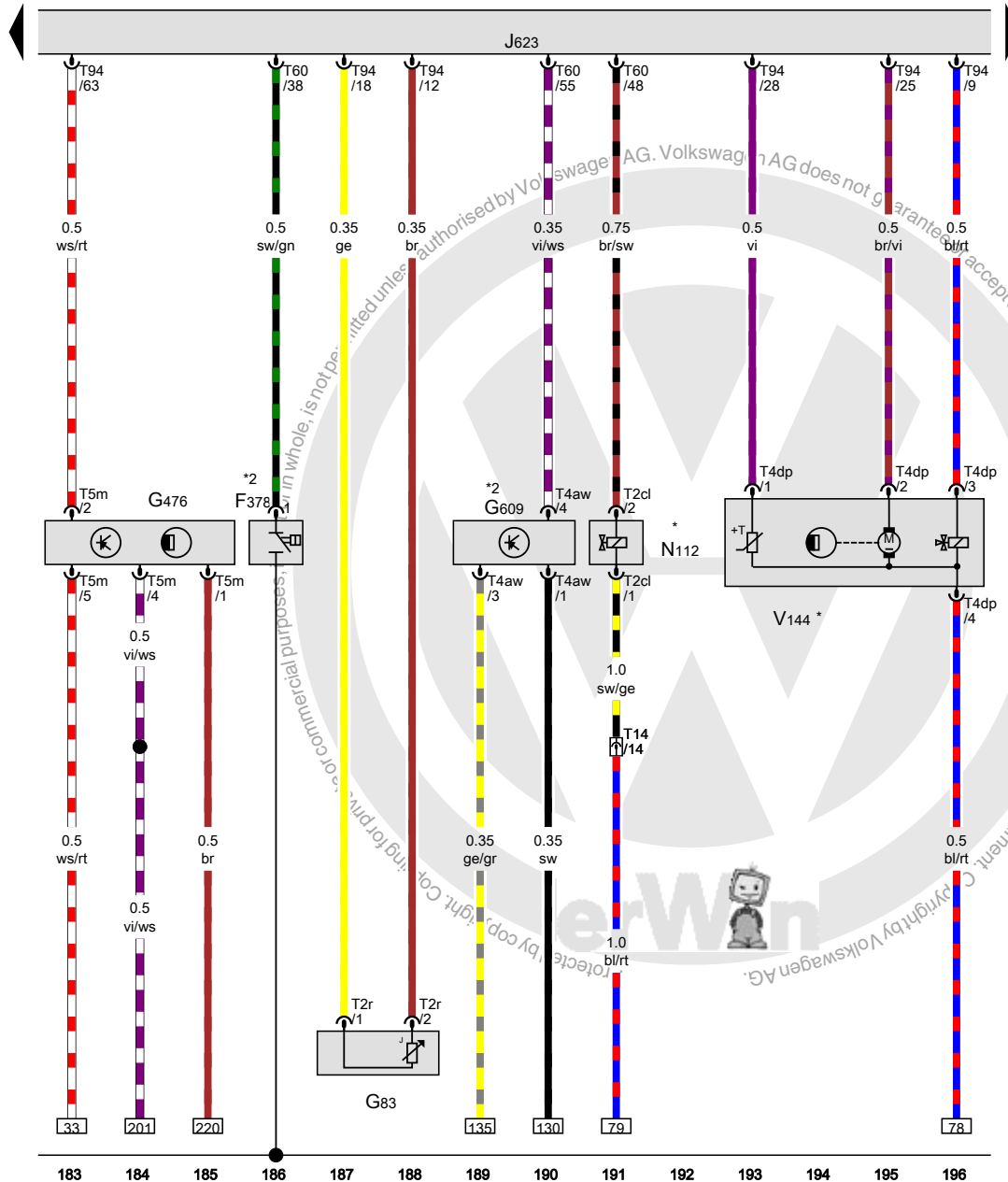
- F Brake Lamp Switch
- F47 Brake Pedal Switch
- G130 Oxygen Sensor After Catalytic Converter
- G465 Center Oxygen Sensor for Bank 1 Catalytic Converter
- J623 Engine/Motor Control Module
- T4al 4-Pin Connector
- T4ao 4-Pin Connector
- T4v 4-Pin Connector
- T4x 4-Pin Connector
- T94 94-Pin Connector
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- Z59 Heater for Oxygen Sensor Center Catalytic Converter

B131 Connection 54 (in Interior Wiring Harness)

E30 Connection 87A (in Engine Wiring Harness)

- * Radiator Fan Connection
- *2 Depending on Equipment
- *3 For USA Only

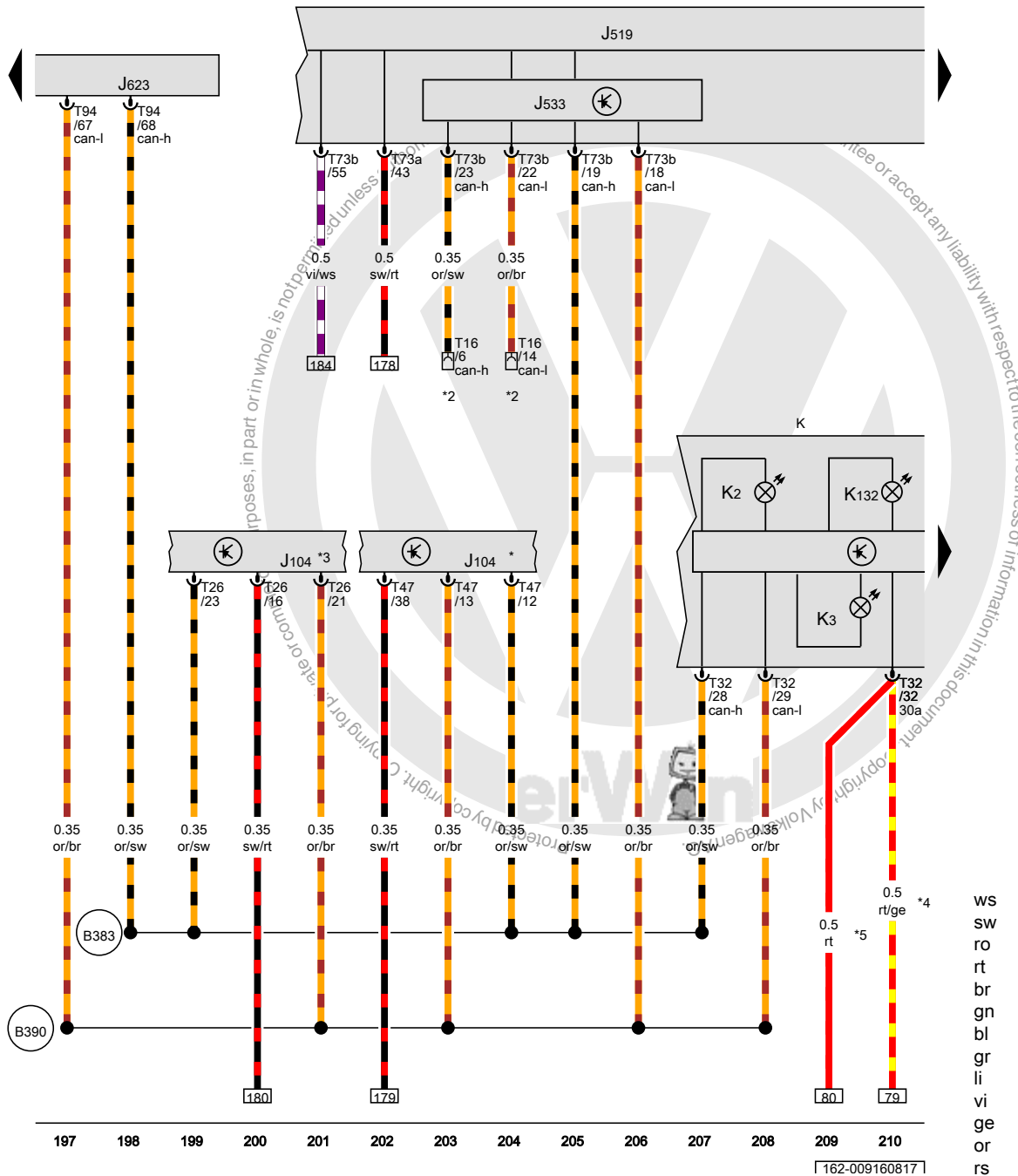
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 gn = green
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Reduced Oil Pressure Switch, Engine Coolant Temperature Sensor on Radiator Outlet, Clutch Position Sensor, Secondary Air Injection Sensor 1, Engine/Motor Control Module, Secondary Air Injection Solenoid Valve, Leak Detection Pump

- F378 Reduced Oil Pressure Switch
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- G476 Clutch Position Sensor
- G609 Secondary Air Injection Sensor 1
- J623 Engine/Motor Control Module
- N112 Secondary Air Injection Solenoid Valve
- T2cl 2-Pin Connector
- T2r 2-Pin Connector
- T4aw 4-Pin Connector
- T4dp 4-Pin Connector
- T5m 5-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- V144 Leak Detection Pump
- * For USA Only
- *2 Depending on Equipment



Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Engine/Motor Control Module, Generator Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- J104 ABS Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine/Motor Control Module
- K Instrument Cluster
- K2 Generator Indicator Lamp
- K3 Oil Pressure Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T16 16-Pin Connector
- T26 26-Pin Connector
- T32 32-Pin Connector
- T47 47-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- T94 94-Pin Connector

B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)

B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)

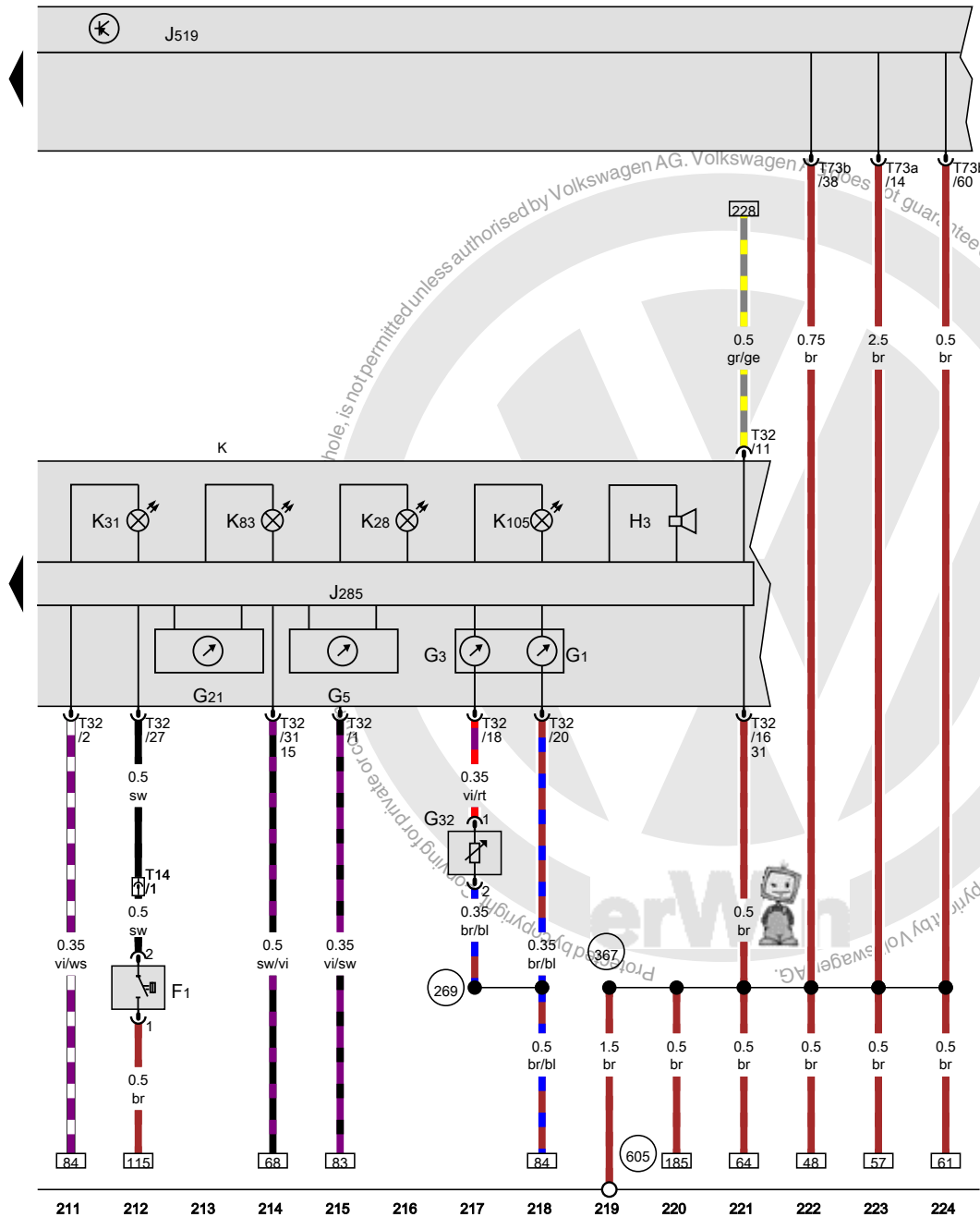
- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 Diagnostic Connector
- *3 For Vehicles with ABS Without ESP
- *4 Omitted as a Running Change
- *5 Running Change

Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp

- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column

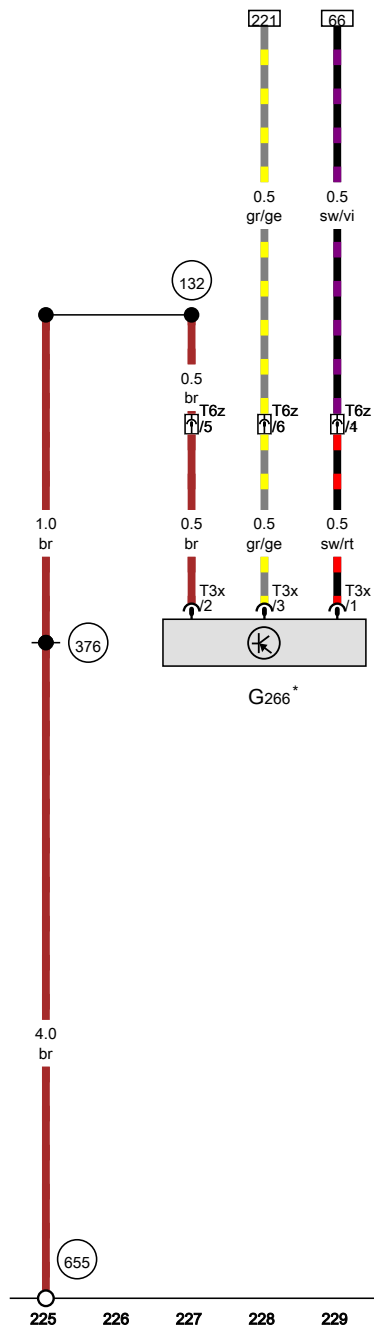
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 gr = grey
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 or = orange
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Oil Level Thermal Sensor

- G266 Oil Level Thermal Sensor
- T3x 3-Pin Connector
- T6z 6-Pin Connector, Near the Left Headlamp
- 132 Ground Connection 3 (in Engine/Motor Compartment Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 655 Ground Connection on Left Headlamp
- * For Vehicles with Flexible Service Interval Display



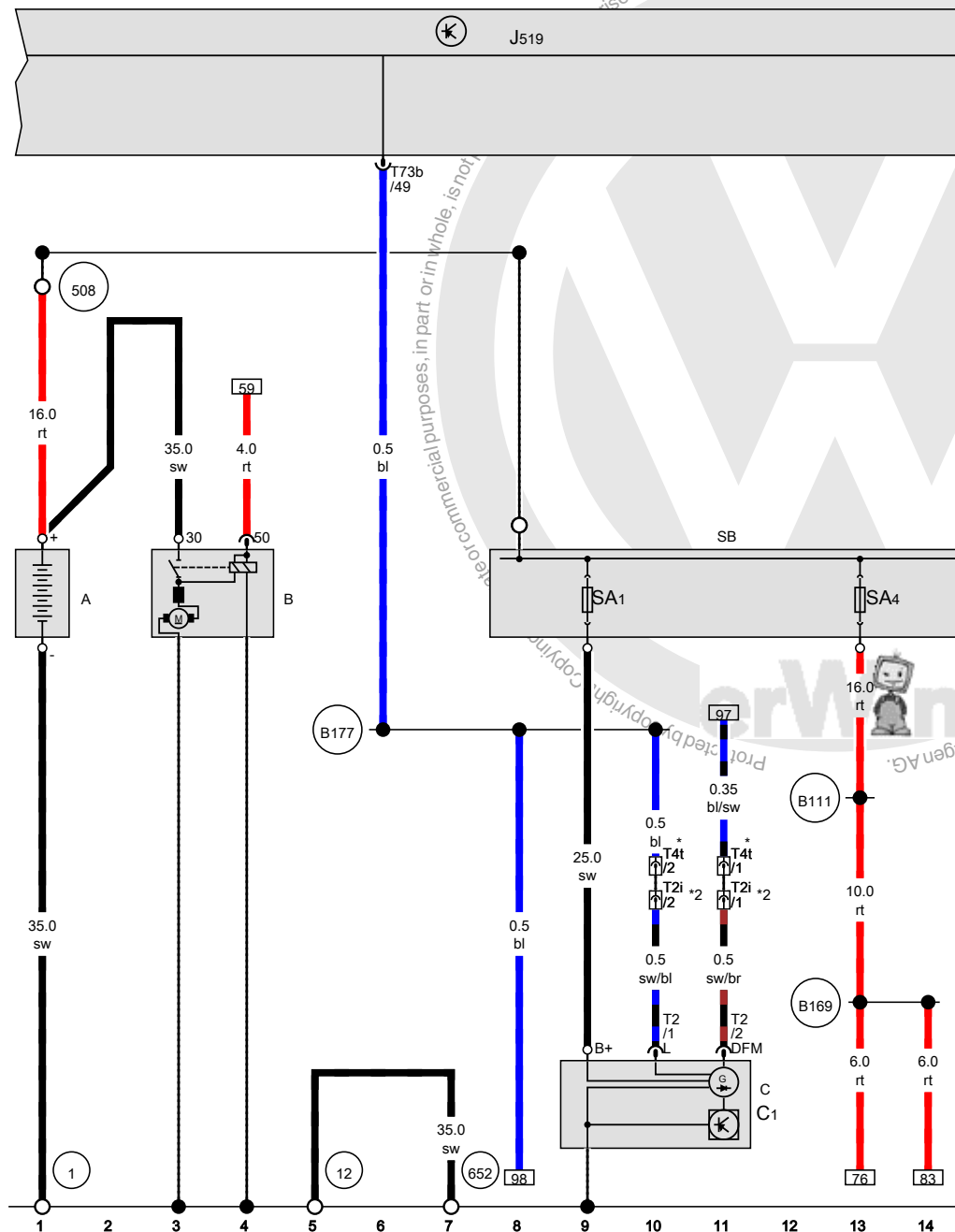
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2.0L Diesel Engine , CJAA,(AW0)

From April 2010



Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse Panel B



- A Battery
- B Starter
- C Generator
- C1 Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T73b 73-Pin Connector

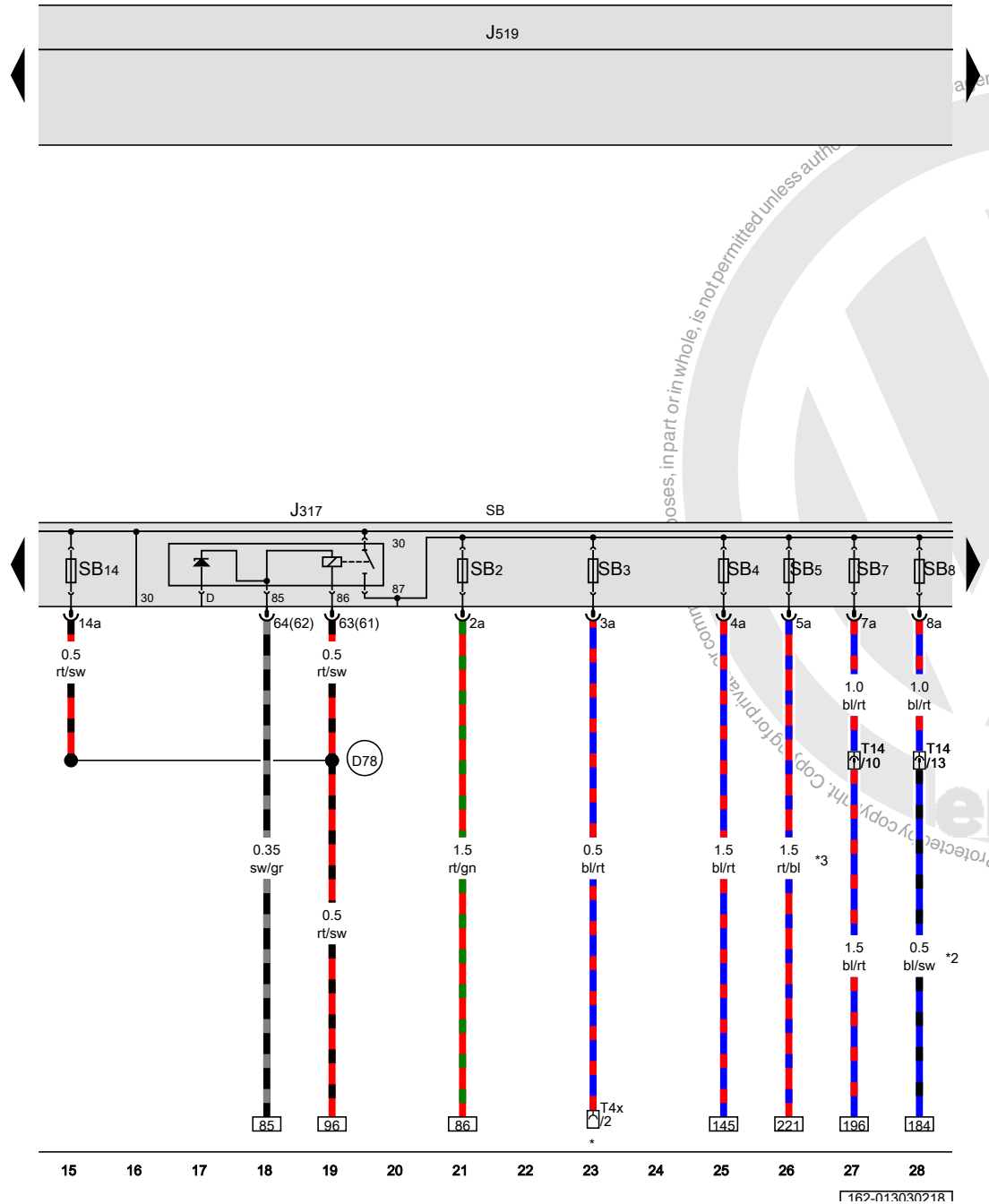
- 1 Ground Cable, Battery to Body
- 12 Ground Connection in Engine/Motor Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)

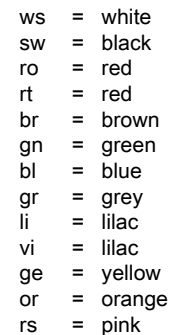
- * For Vehicles with A/C System
- *2 For Vehicles Without an A/C System

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- br = brown
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Terminal 30 Power Supply Relay, Vehicle Electrical System Control Module, Fuse Panel B, Fuse 14 (On Fuse Panel B)

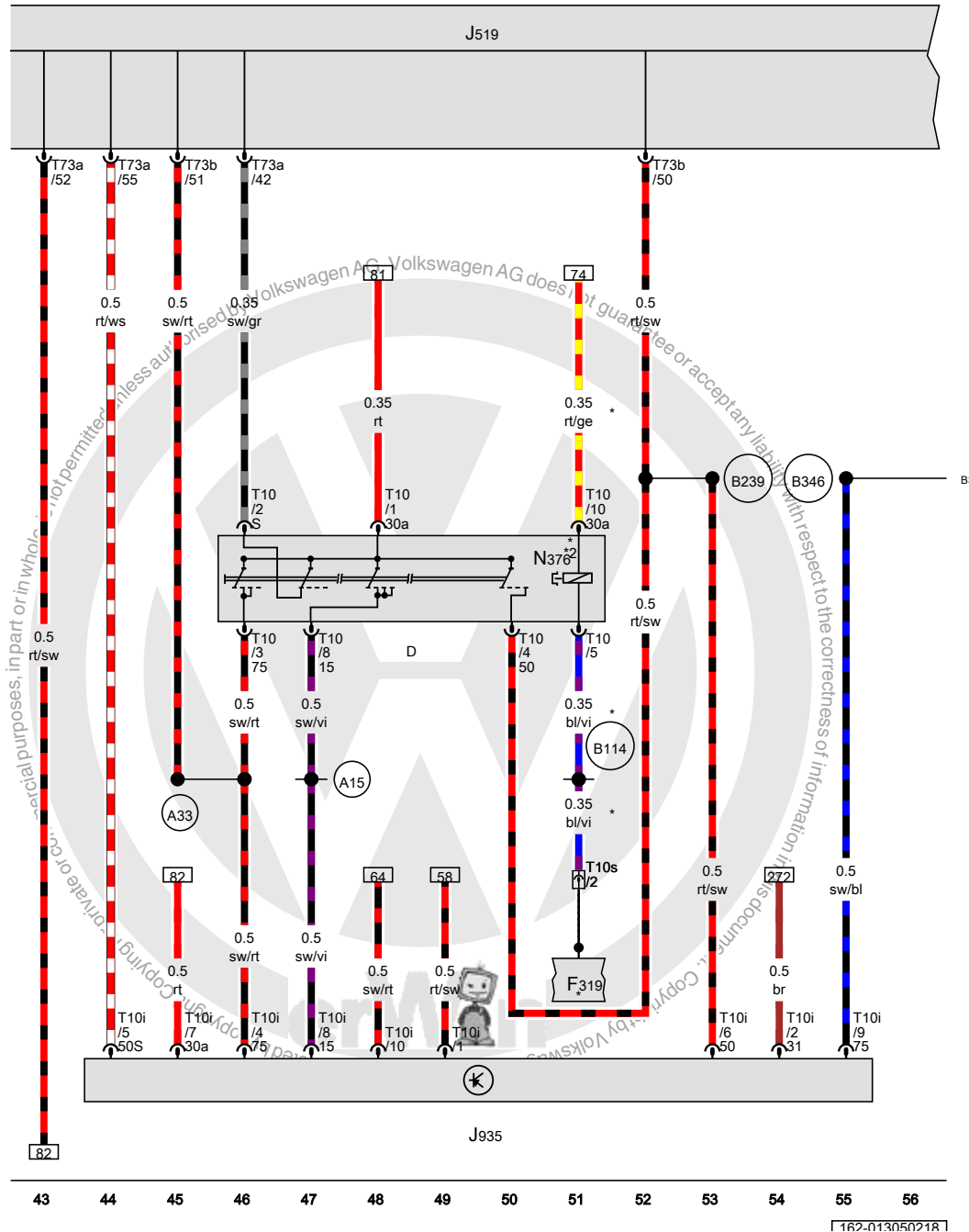
- J317 Terminal 30 Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB4 Fuse 4 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB7 Fuse 7 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- T4x 4-Pin Connector
- T14 14-Pin Connector, Near the Battery
- D78 Positive Connection 1 (30a) (in Engine/Motor Compartment Wiring Harness)
- * Radiator Fan Connection
- *2 Omitted as a Running Change
- *3 The Color of the Wires Depends on Vehicle Equipment

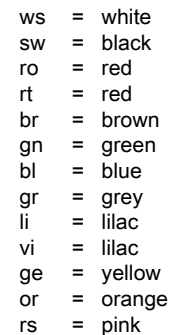




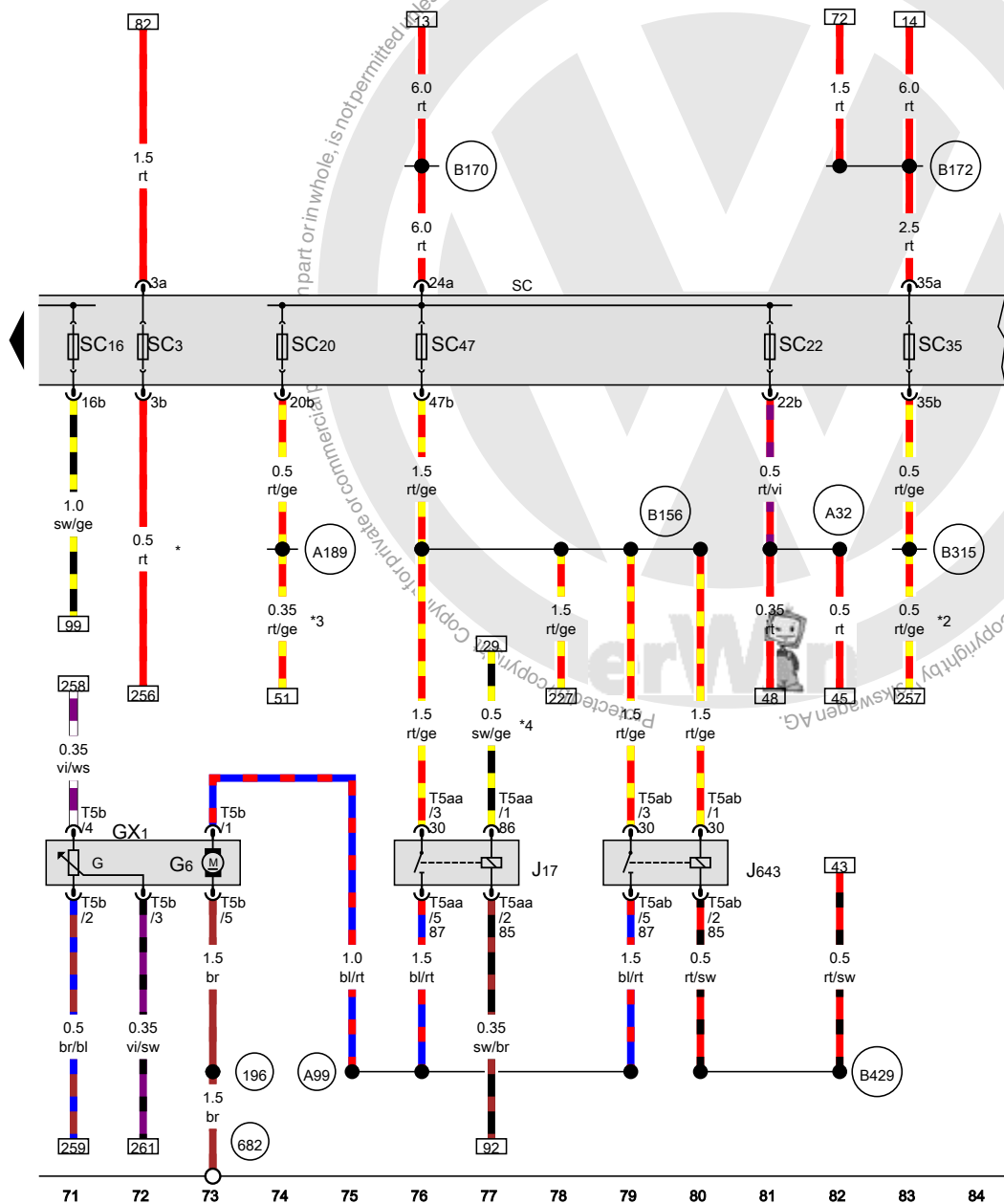
- * For Vehicles with Auxiliary Heater
- *2 Refer to Applicable Wiring Diagram
- *3 Omitted as a Running Change
- *4 The Color of the Wires Depends on Vehicle Equipment
- *5 Running Change

Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box





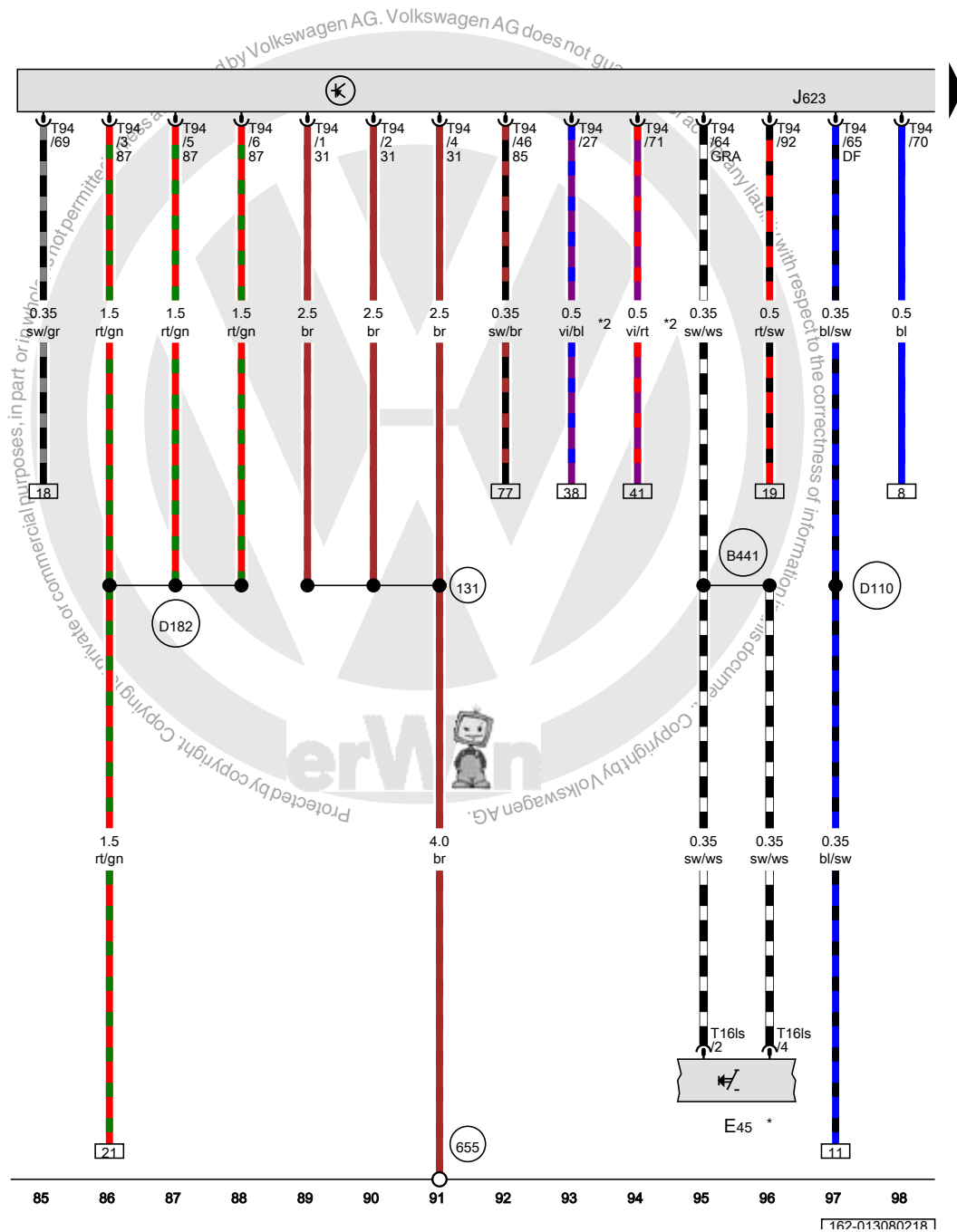
* Running Change
*2 Omitted as a Running Change



ws = white
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 ro = red
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 or = orange
 rs = pink

Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Fuel Pump Relay, Fuel Supply Relay, Fuse Panel C

- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J17 Fuel Pump Relay
- J643 Fuel Supply Relay
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC20 Fuse 20 (On Fuse Panel C)
- SC22 Fuse 22 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- SC47 Fuse 47 (On Fuse Panel C)
- T5aa 5-Pin Connector
- T5ab 5-Pin Connector
- T5b 5-Pin Connector
- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- A32 Positive Connection (30) (in Instrument Panel Wiring Harness)
- A99 Connection 87 (in Instrument Panel Wiring Harness) 1
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- B156 Positive Connection 30a (in Interior Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- B429 Fuel Pump Relay Connection (in Main Wiring Harness)
- * Running Change
- *2 Omitted as a Running Change
- *3 For Vehicles with Automatic Transmission
- *4 The Color of the Wires Depends on Vehicle Equipment

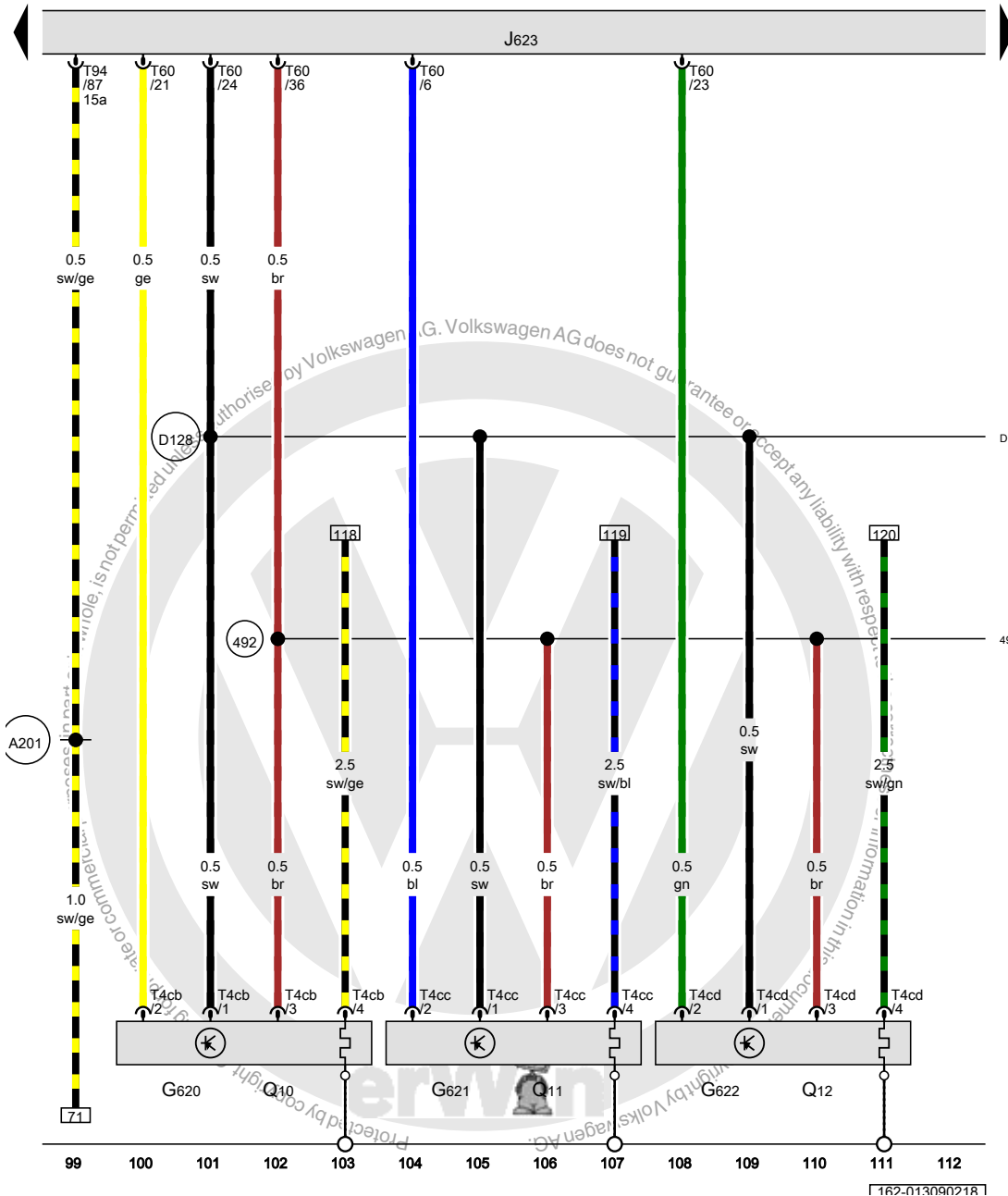


Engine/Motor Control Module

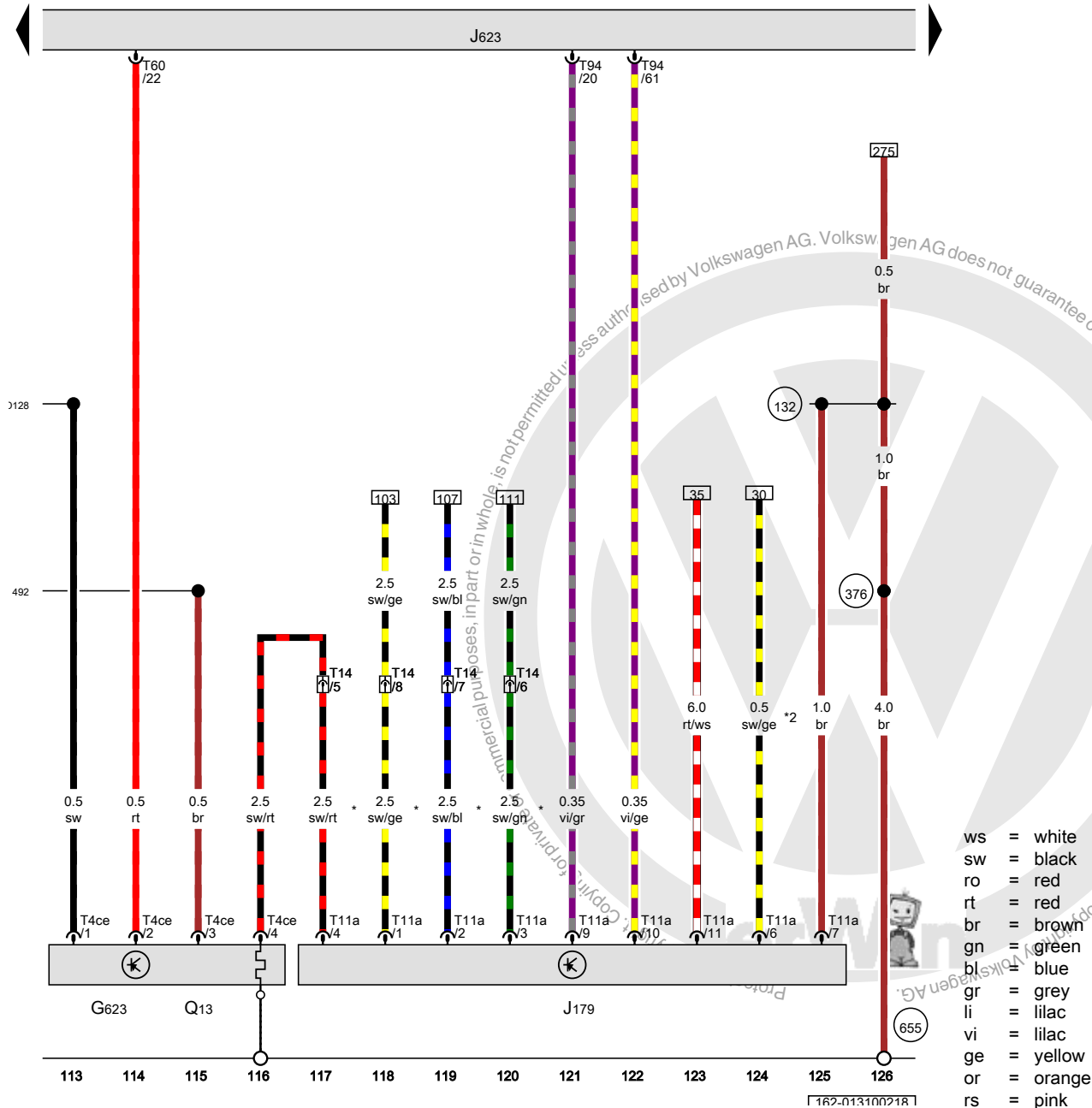
- E45 Cruise Control Switch
- J623 Engine/Motor Control Module
- T16ls 16-Pin Connector
- T94 94-Pin Connector

- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- B441 Cruise Control Connection (in Main Wiring Harness)
- D110 Connection 8 (in Engine/Motor Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine/Motor Compartment Wiring Harness)
- * For Vehicles with Cruise Control System
- *2 For Vehicles with Auxiliary Heater

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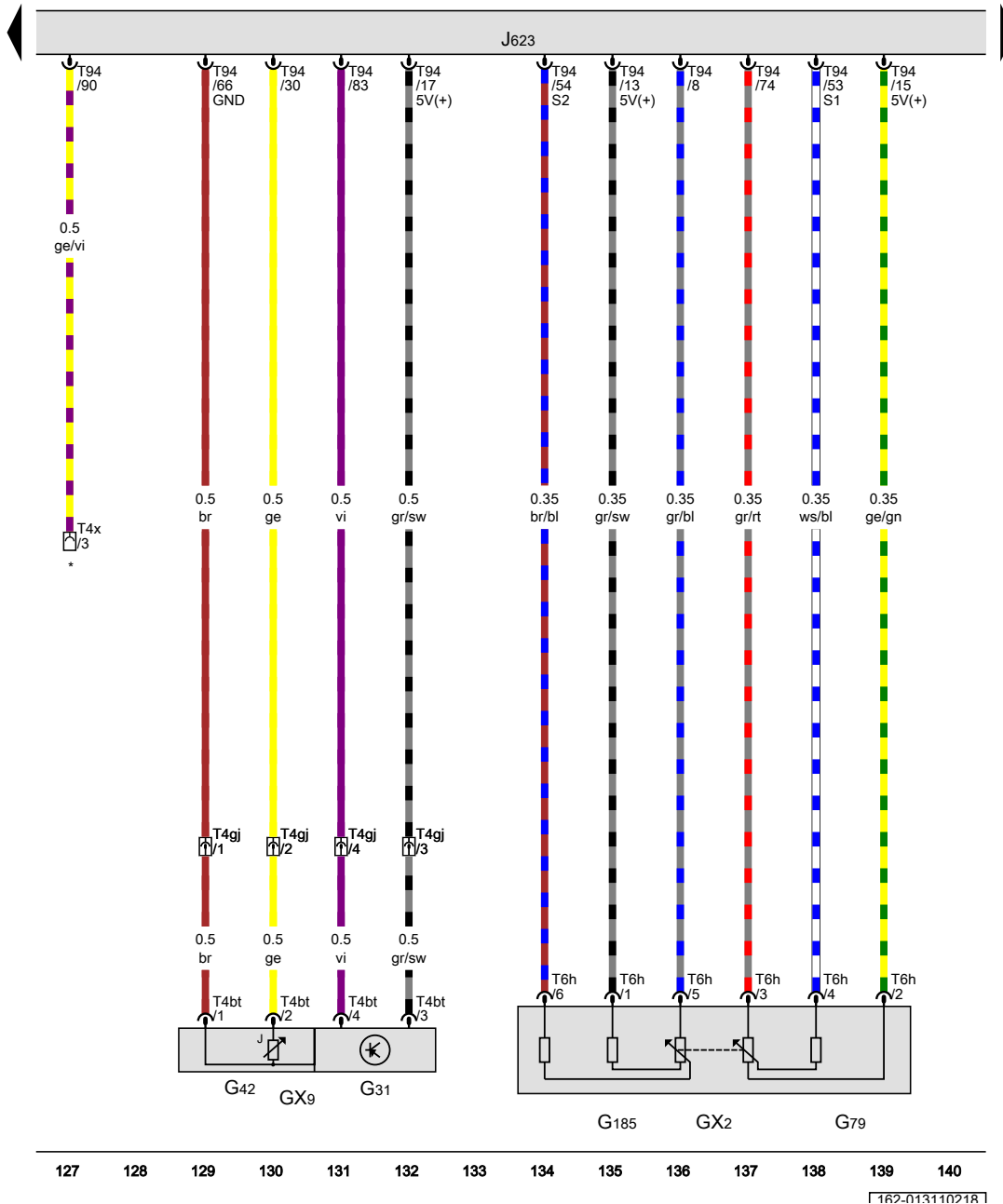


Cylinder 4 Internal Pressure Sensor, Automatic Glow Time Control Module, Engine/Motor Control Module, Glow Plug 4



- G623 Cylinder 4 Internal Pressure Sensor
- J179 Automatic Glow Time Control Module
- J623 Engine/Motor Control Module
- Q13 Glow Plug 4
- T4ce 4-Pin Connector
- T11a 11-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector
- T94 94-Pin Connector
- 132 Ground Connection 3 (in Engine/Motor Compartment Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 492 Sensor Ground Connection 2 (in Fuel Injection System Wiring Harness)
- 655 Ground Connection on Left Headlamp
- D128 Connection 26 (in Engine/Motor Compartment Wiring Harness)
- * 1.5 Diameter Possible
- *2 The Color of the Wires Depends on Vehicle Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



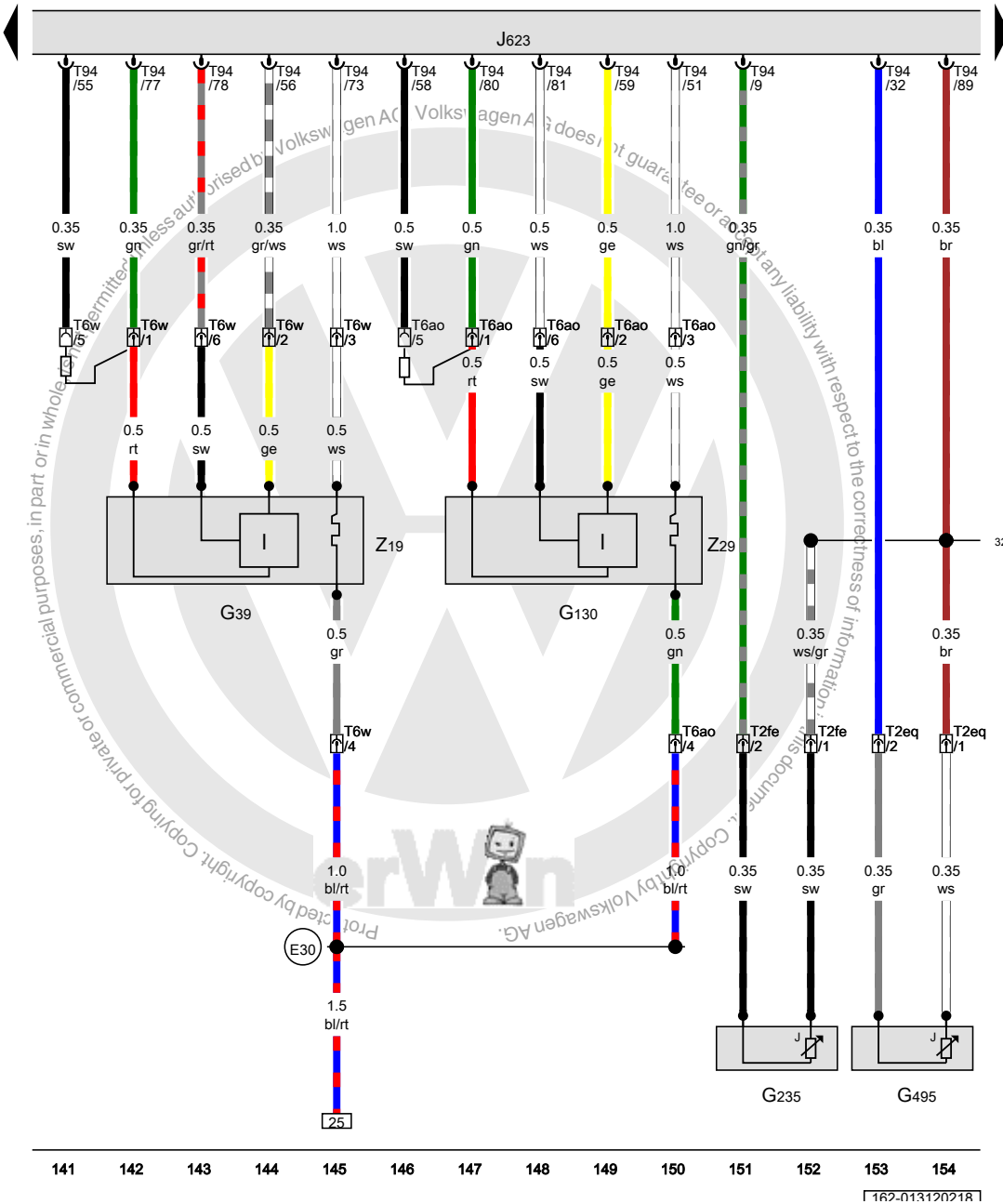
Accelerator Pedal Module, Intake Manifold Sensor, Intake Air Temperature Sensor, Accelerator Pedal Position Sensor 2, Engine/Motor Control Module

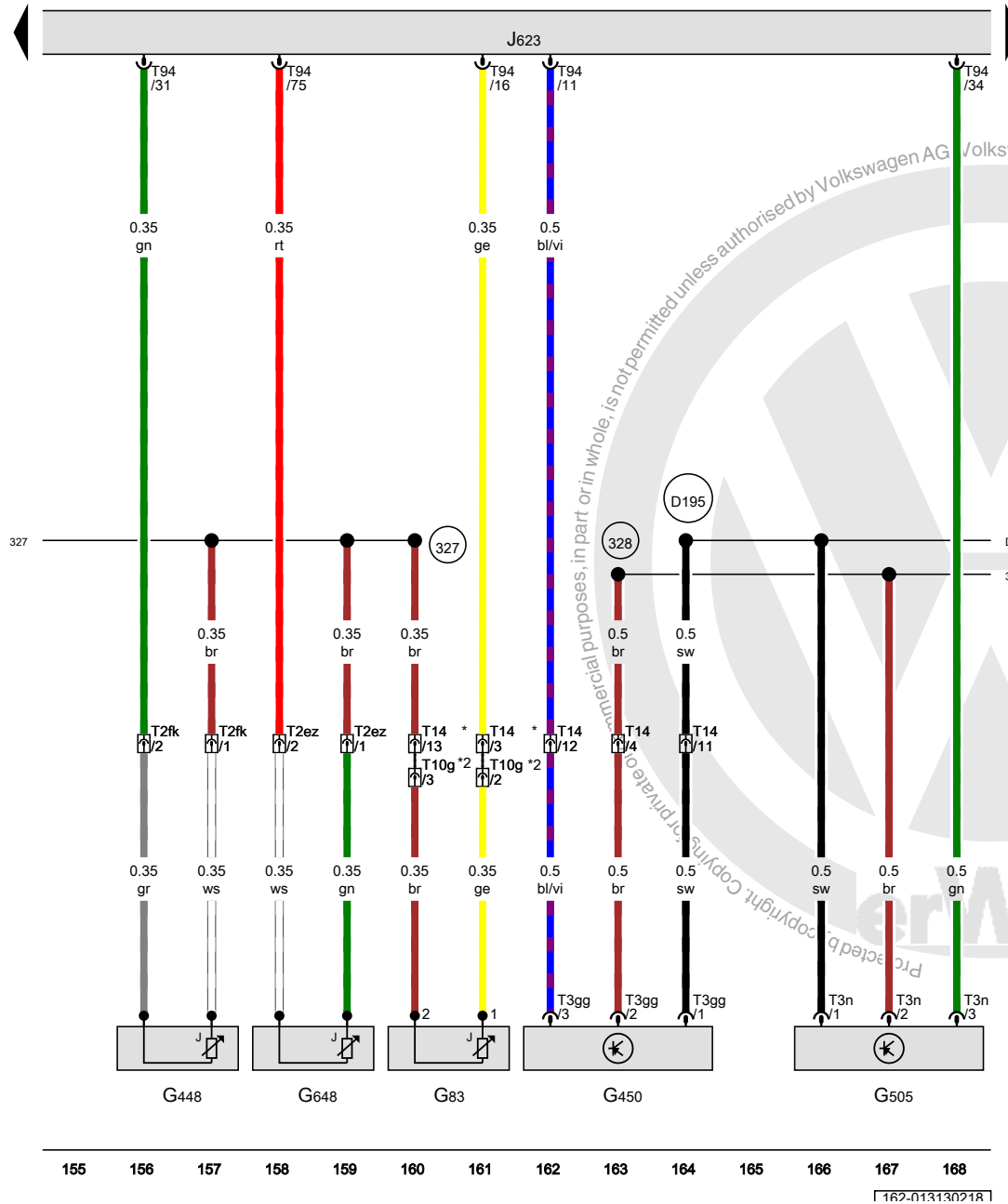
- GX2 Accelerator Pedal Module
- GX9 Intake Manifold Sensor
- G31 Charge Air Pressure Sensor
- G42 Intake Air Temperature Sensor
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine/Motor Control Module
- T4bt 4-Pin Connector
- T4gj 4-Pin Connector
- T4x 4-Pin Connector
- T6h 6-Pin Connector
- T94 94-Pin Connector
- * Radiator Fan Connection

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Heated Oxygen Sensor, Exhaust Gas Temperature Sensor 1, Exhaust Gas Temperature Sensor 3, Engine/Motor Control Module, Oxygen Sensor Heater, Heater for Oxygen Sensor 1 After Catalytic Converter

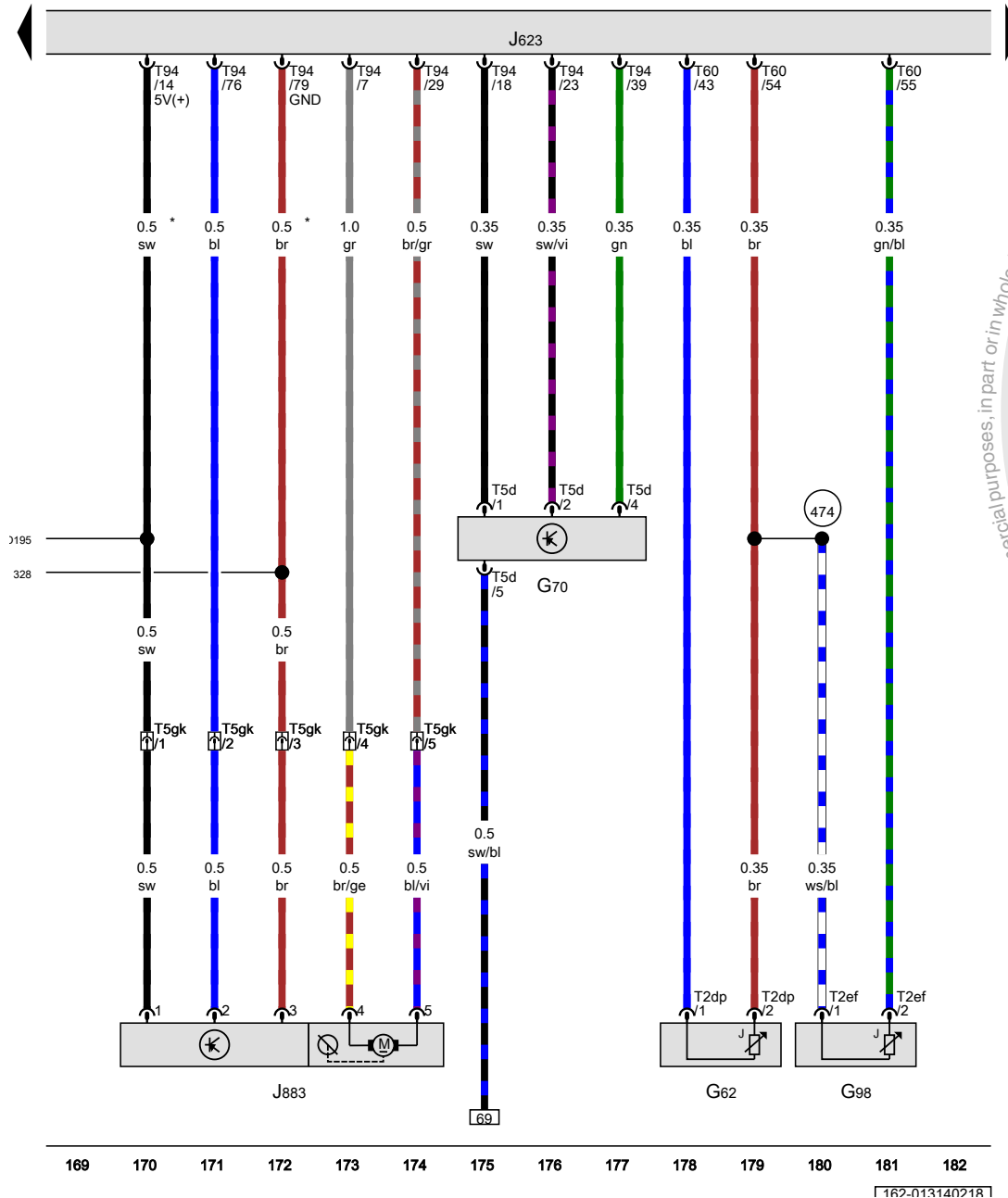
- G39 Heated Oxygen Sensor
- G130 Oxygen Sensor After Catalytic Converter
- G235 Exhaust Gas Temperature Sensor 1
- G495 Exhaust Gas Temperature Sensor 3
- J623 Engine/Motor Control Module
- T2eq 2-Pin Connector
- T2fe 2-Pin Connector
- T6ao 6-Pin Connector
- T6w 6-Pin Connector
- T94 94-Pin Connector
- Z19 Oxygen Sensor Heater
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- 327 Sensor Ground Connection (in Engine/Motor Compartment Wiring Harness)
- E30 Connection 87A (in Engine Wiring Harness)





Engine Coolant Temperature Sensor on Radiator Outlet,
Exhaust Gas Temperature Sensor 2, Exhaust Pressure
Sensor 1, Differential Pressure Sensor, Exhaust Gas
Temperature Sensor 4, Engine/Motor Control Module

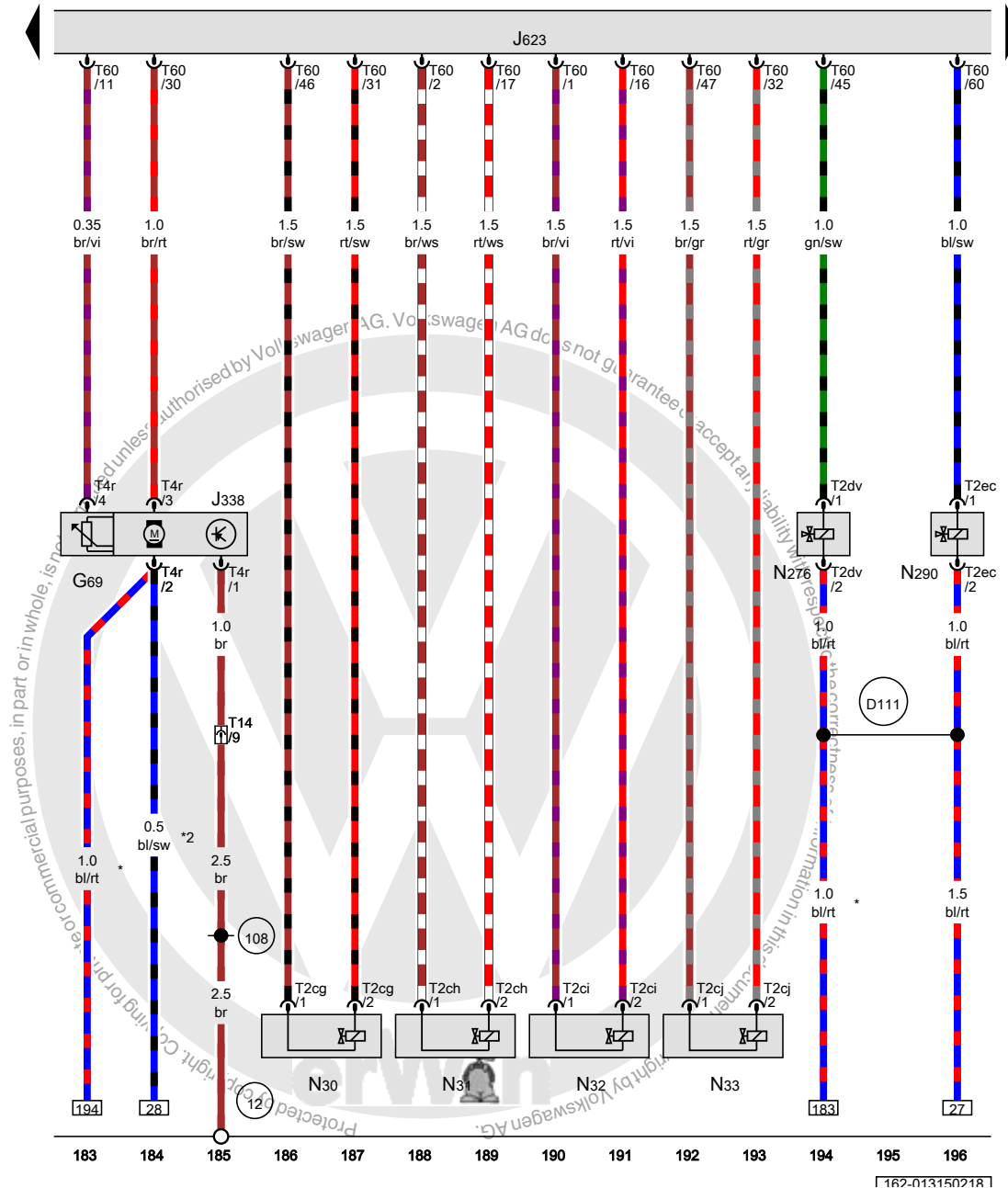
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- G448 Exhaust Gas Temperature Sensor 2
- G450 Exhaust Pressure Sensor 1
- G505 Differential Pressure Sensor
- G648 Exhaust Gas Temperature Sensor 4
- J623 Engine/Motor Control Module
- T2ez 2-Pin Connector
- T2fk 2-Pin Connector
- T3gg 3-Pin Connector
- T3n 3-Pin Connector
- T10g 10-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T94 94-Pin Connector
- 327 Sensor Ground Connection (in Engine/Motor Compartment Wiring Harness)
- 328 Sensor Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- D195 Connection 5V (in Engine/Motor Compartment Wiring Harness)
- * Running Change
- *2 Omitted as a Running Change



Engine Coolant Temperature Sensor, Mass Airflow Sensor, EGR Temperature Sensor, Engine/Motor Control Module, Exhaust Door Control Unit

- G62 Engine Coolant Temperature Sensor
- G70 Mass Airflow Sensor
- G98 EGR Temperature Sensor
- J623 Engine/Motor Control Module
- J883 Exhaust Door Control Unit
- T2dp 2-Pin Connector
- T2ef 2-Pin Connector
- T5d 5-Pin Connector
- T5gk 5-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- 328 Sensor Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 474 Sensor Ground Connection (in Engine Pre-Wiring Harness)
- D195 Connection 5V (in Engine/Motor Compartment Wiring Harness)
- * The Color of the Wires Depends on Vehicle Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



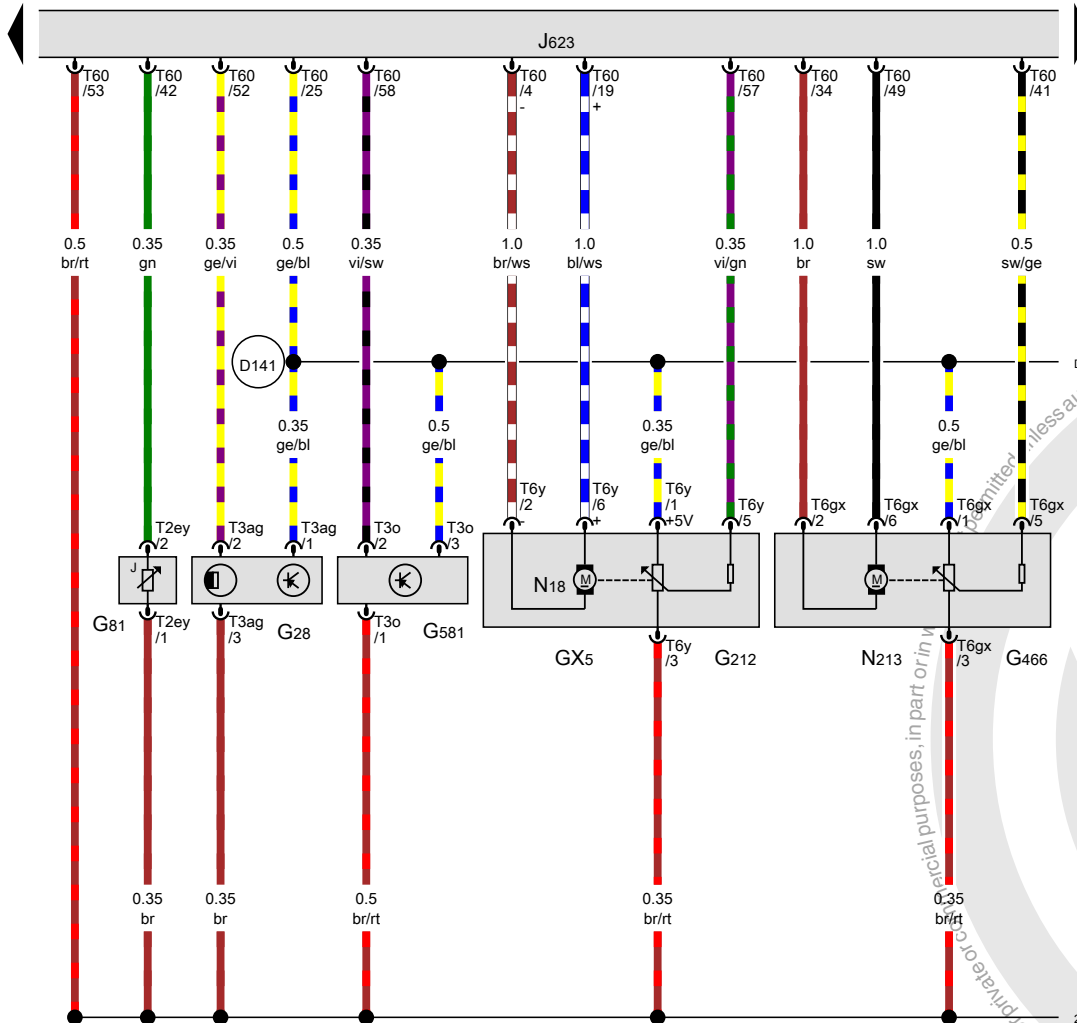
Throttle Position Sensor, Throttle Valve Control Module, Engine/Motor Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, Fuel Pressure Regulator Valve, Fuel Metering Valve

- G69 Throttle Position Sensor
- J338 Throttle Valve Control Module
- J623 Engine/Motor Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N276 Fuel Pressure Regulator Valve
- N290 Fuel Metering Valve
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2dv 2-Pin Connector
- T2ec 2-Pin Connector
- T4r 4-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector

- 12 Ground Connection in Engine/Motor Compartment, Left
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- D111 Connection 9 (in Engine/Motor Compartment Wiring Harness)
- * Running Change
- *2 Omitted as a Running Change

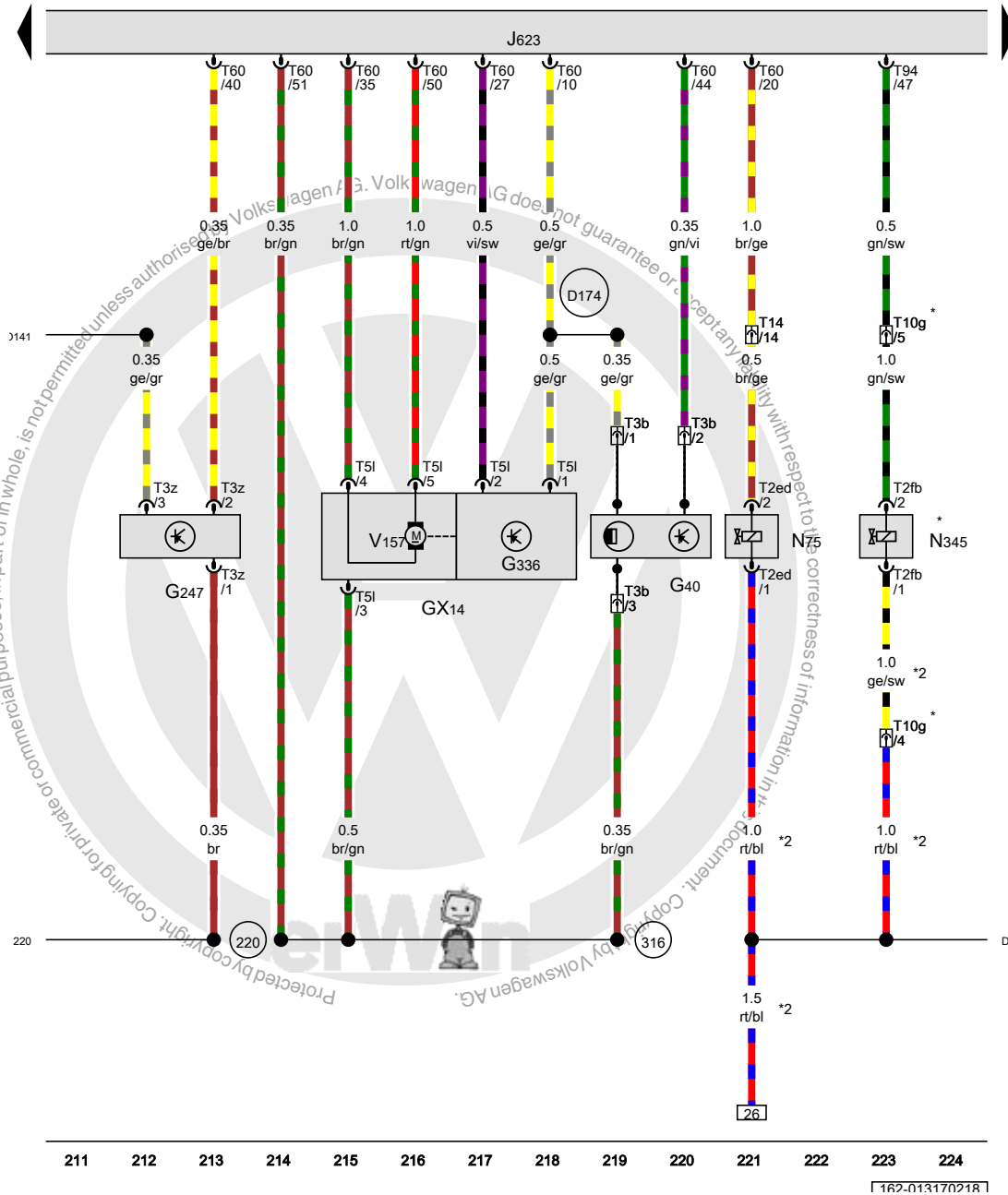
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

EGR Valve 1, Engine Speed Sensor, Fuel Temperature Sensor, EGR Potentiometer, EGR Position Sensor 2, Charge Air Pressure Actuator Position Sensor, Engine/Motor Control Module, Valve 2 for EGR



- GX5 EGR Valve 1
- G28 Engine Speed Sensor
- G81 Fuel Temperature Sensor
- G212 EGR Potentiometer
- G466 EGR Position Sensor 2
- G581 Charge Air Pressure Actuator Position Sensor
- J623 Engine/Motor Control Module
- N18 EGR Valve
- N213 Valve 2 for EGR
- T2ey 2-Pin Connector
- T3ag 3-Pin Connector
- T3o 3-Pin Connector
- T6gx 6-Pin Connector
- T6y 6-Pin Connector
- T60 60-Pin Connector
- 220 Sensor Ground Connection (in Engine Wiring Harness)
- D141 Connection 5V (in Engine Pre-Wiring Harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



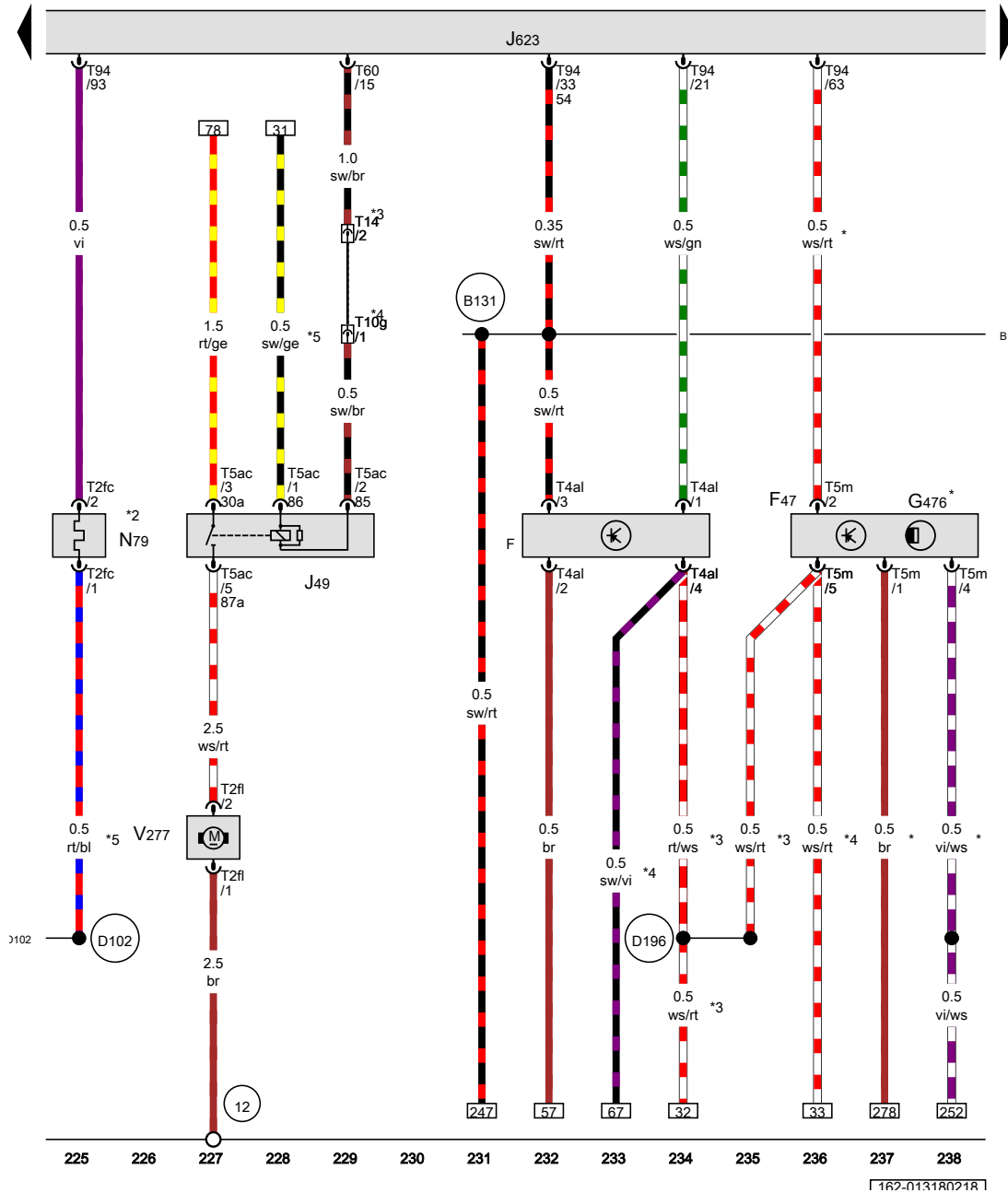
Intake Flap Control Unit, Camshaft Position Sensor, Fuel Pressure Sensor, Intake Manifold Runner Position Sensor, Engine/Motor Control Module, Wastegate Bypass Regulator Valve, EGR Cooler Switch-Over Valve

- GX14 Intake Flap Control Unit
- G40 Camshaft Position Sensor
- G247 Fuel Pressure Sensor
- G336 Intake Manifold Runner Position Sensor
- J623 Engine/Motor Control Module
- N75 Wastegate Bypass Regulator Valve
- N345 EGR Cooler Switch-Over Valve
- T2ed 2-Pin Connector
- T2fb 2-Pin Connector
- T3b 3-Pin Connector
- T3z 3-Pin Connector
- T5l 5-Pin Connector
- T10g 10-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector
- T94 94-Pin Connector
- V157 Intake Flap Motor

- 220 Sensor Ground Connection (in Engine Wiring Harness)
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D102 Connection 2 (in Engine/Motor Compartment Wiring Harness)
- D141 Connection 5V (in Engine Pre-Wiring Harness)
- D174 Connection 2 (5V) (in Engine Pre-Wiring Harness)

* Depending on Equipment
*2 The Color of the Wires Depends on Vehicle Equipment

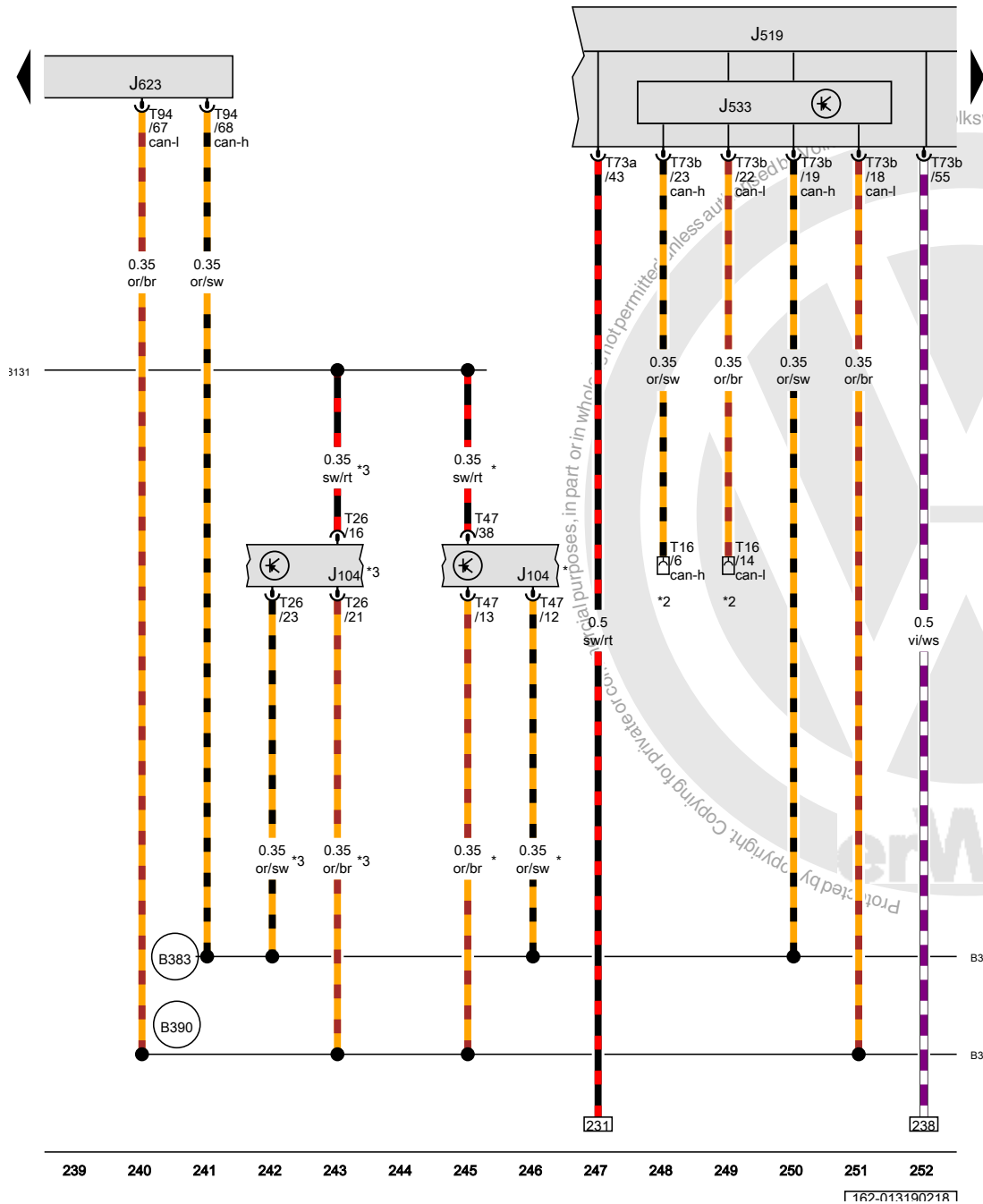
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Brake Lamp Switch, Brake Pedal Switch, Clutch Position Sensor, Fuel Pump Relay 2, Engine/Motor Control Module, Positive Crankcase Ventilation Heating Element, Fuel Pump 2

- F Brake Lamp Switch
- F47 Brake Pedal Switch
- G476 Clutch Position Sensor
- J49 Fuel Pump Relay 2
- J623 Engine/Motor Control Module
- N79 Positive Crankcase Ventilation Heating Element
- T2fc 2-Pin Connector
- T2fi 2-Pin Connector
- T4al 4-Pin Connector
- T5ac 5-Pin Connector
- T5m 5-Pin Connector
- T10g 10-Pin Connector
- T14 14-Pin Connector, In the Engine/Motor Compartment, Left
- T60 60-Pin Connector
- T94 94-Pin Connector
- V277 Fuel Pump 2
- 12 Ground Connection in Engine/Motor Compartment, Left
- B131 Connection 54 (in Interior Wiring Harness)
- D102 Connection 2 (in Engine/Motor Compartment Wiring Harness)
- D196 Connection 87A (in Engine Pre-Wiring Harness) 2
- * For Vehicles with a Manual Transmission
- *2 For Vehicles with Crankcase Ventilation Heater
- *3 Running Change
- *4 Omitted as a Running Change
- *5 The Color of the Wires Depends on Vehicle Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

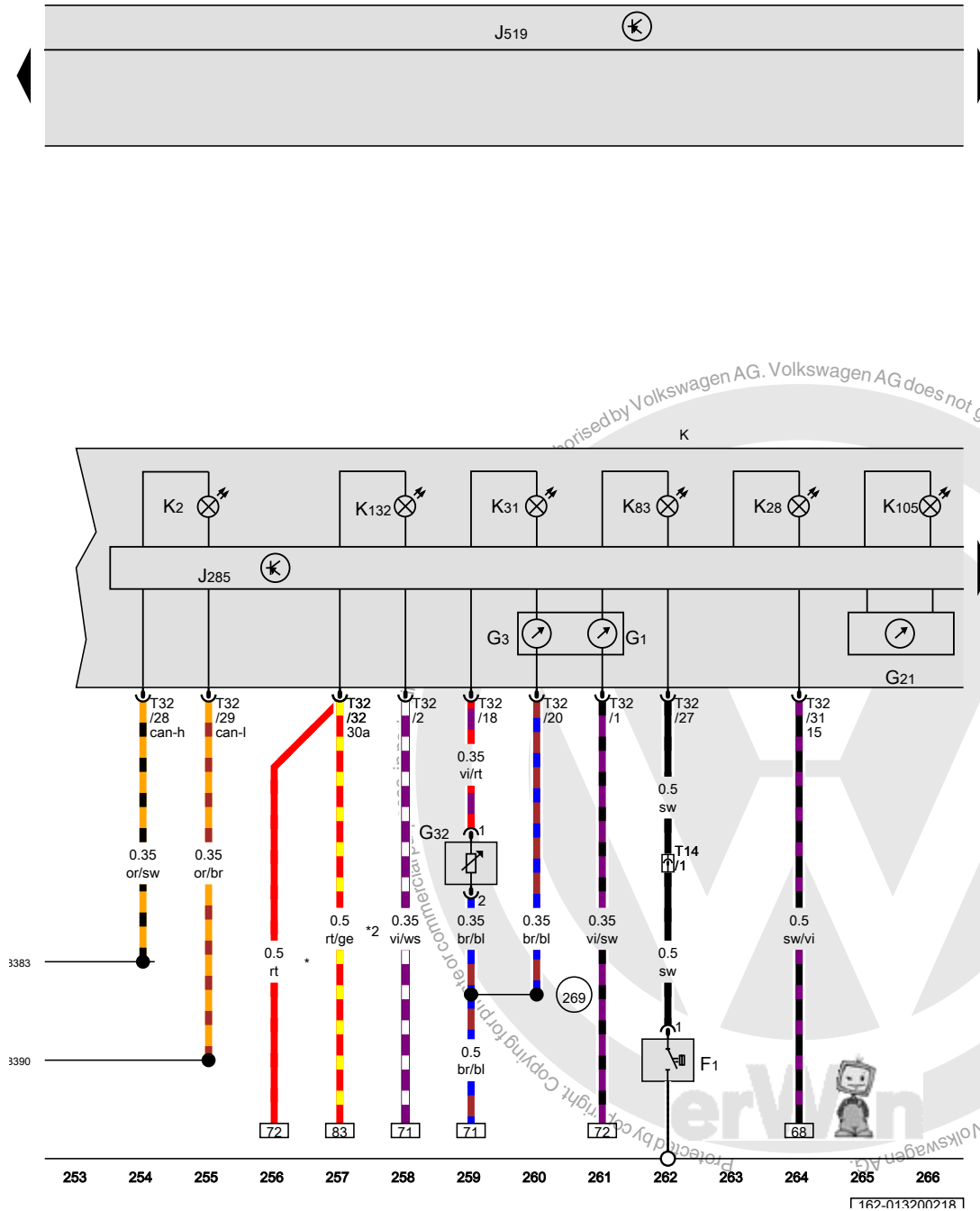


ABS Control Module, Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Engine/Motor Control Module

- J104 ABS Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine/Motor Control Module
- T16 16-Pin Connector
- T26 26-Pin Connector
- T47 47-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- T94 94-Pin Connector

- B131 Connection 54 (in Interior Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 Diagnostic Connector
- *3 For Vehicles with ABS Without ESP

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Generator Indicator Lamp, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

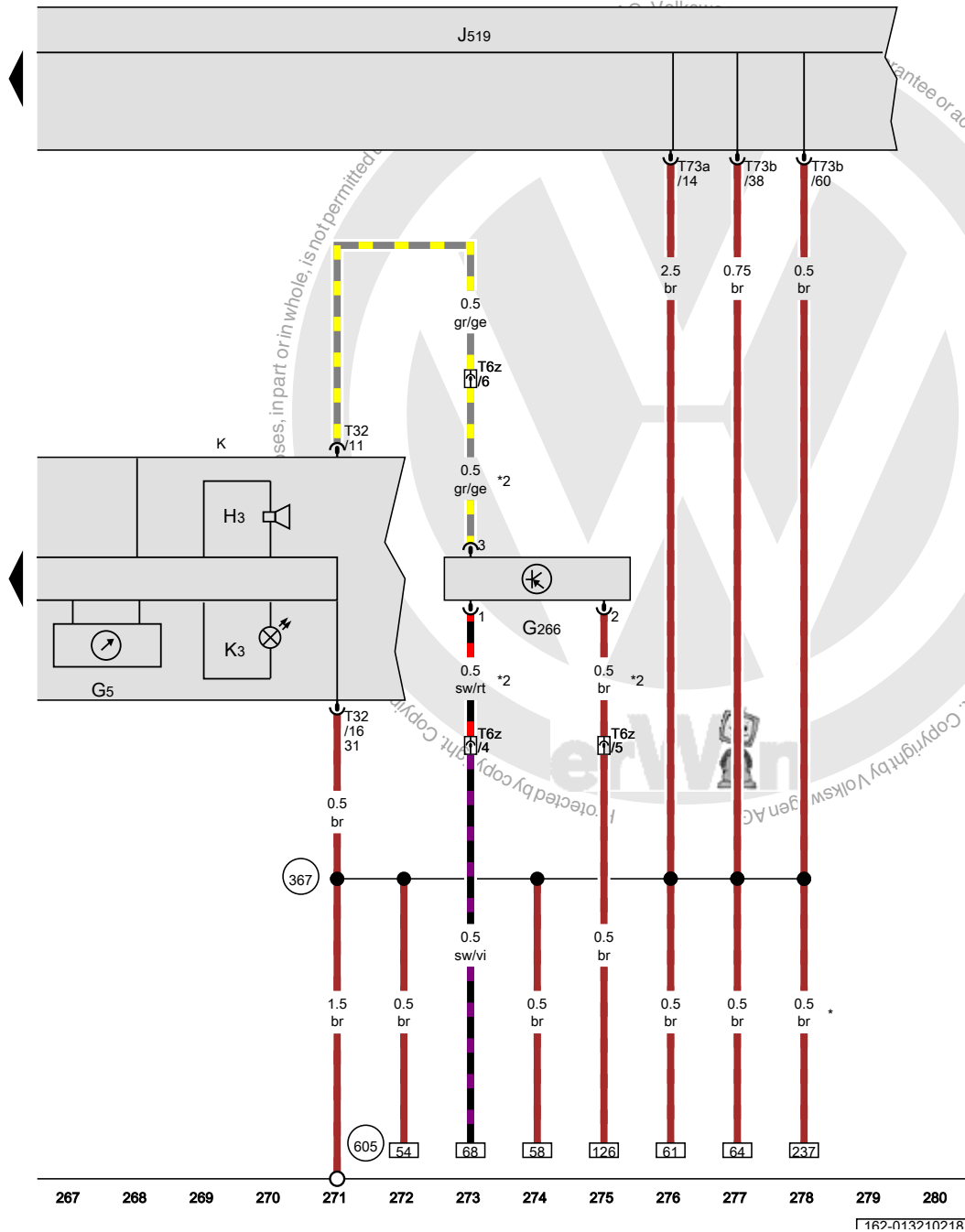
- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K2 Generator Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Running Change
- *2 Omitted as a Running Change

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Tachometer, Oil Level Thermal Sensor, Vehicle Electrical System Control Module

- G5 Tachometer
- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K3 Oil Pressure Indicator Lamp
- T6z 6-Pin Connector, Near the Left Headlamp
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- 367 Ground Connection 2 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- * For Vehicles with a Manual Transmission
- *2 For Vehicles with Flexible Service Interval Display

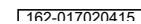
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 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Power steering, electromechanical , (1N3)

from April 2010





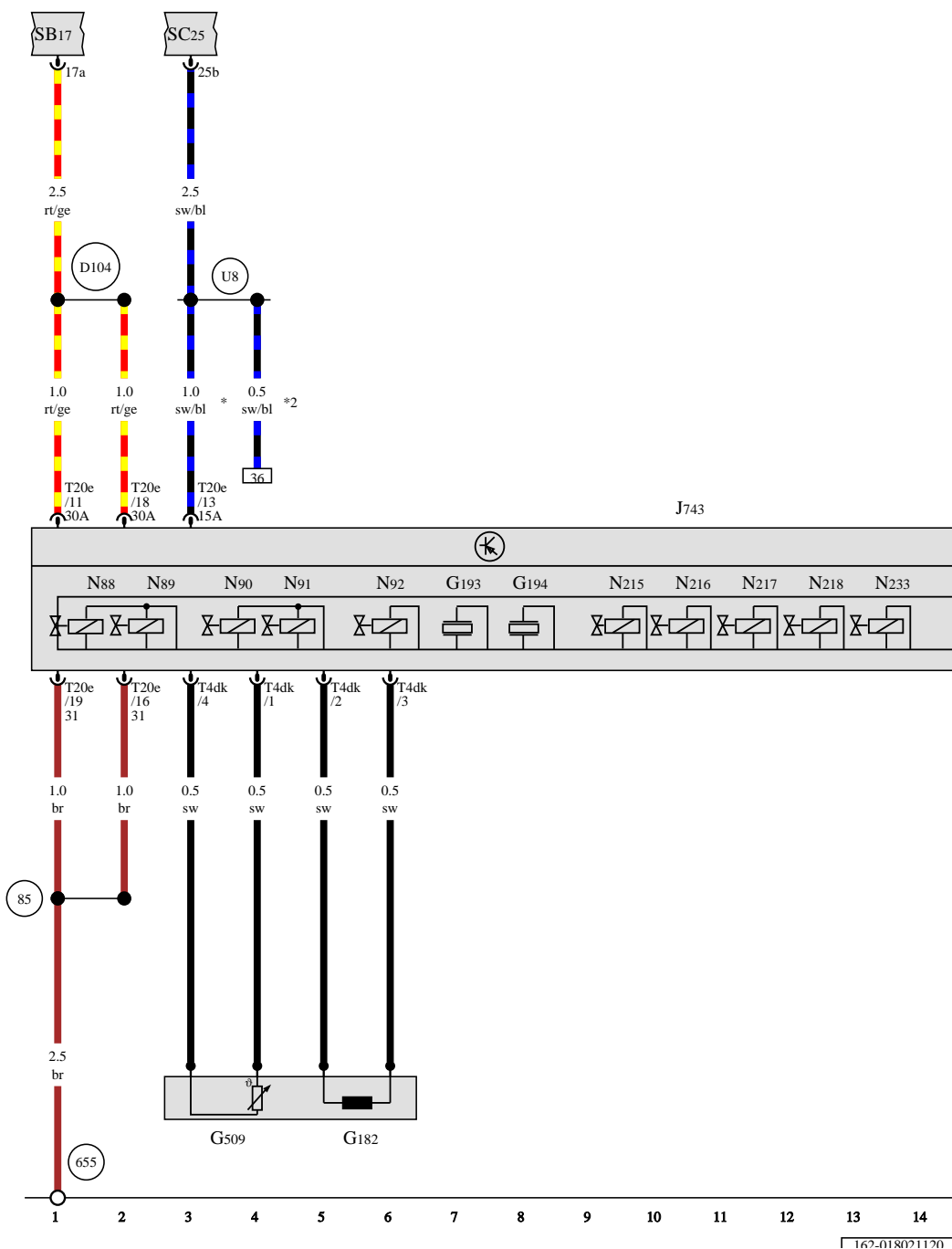
* Refer to applicable standard equipment wiring diagram
*2 only for vehicles with High equipment (AW1)
*3 only for vehicles with Low equipment (AW0)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

Automatic Transmission (DSG) 02E , (0ES)

From November 2010





Transmission Input Speed Sensor, Clutch Oil Temperature Sensor, Dual-Clutch Transmission Mechatronic

- G182 Transmission Input Speed Sensor
- G193 Automatic Transmission Hydraulic Pressure Sensor 1
- G194 Automatic Transmission Hydraulic Pressure Sensor 2
- G509 Clutch Oil Temperature Sensor
- J743 Dual-Clutch Transmission Mechatronic
- N88 Solenoid Valve 1
- N89 Solenoid Valve 2
- N90 Solenoid Valve 3
- N91 Solenoid Valve 4
- N92 Solenoid Valve 5
- N215 Automatic Transmission Pressure Regulating Valve 1
- N216 Automatic Transmission Pressure Regulating Valve 2
- N217 Automatic Transmission Pressure Regulating Valve 3
- N218 Automatic Transmission Pressure Regulating Valve 4
- N233 Automatic Transmission Pressure Regulating Valve 5
- SB17 Fuse 17 (On Fuse Panel B)
- SC25 Fuse 25 (On Fuse Panel C)
- T4dk 4-Pin Connector
- T20e 20-Pin Connector

- 85 Ground Connection 1 (in Engine/Motor Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- D104 Positive Connection 2 (30A) (in Engine/Motor Compartment Wiring Harness)
- U8 Positive Connection (15A) (in Automatic Transmission Wiring Harness)
- * Diameter Depends on Equipment
- *2 Through May 2012

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

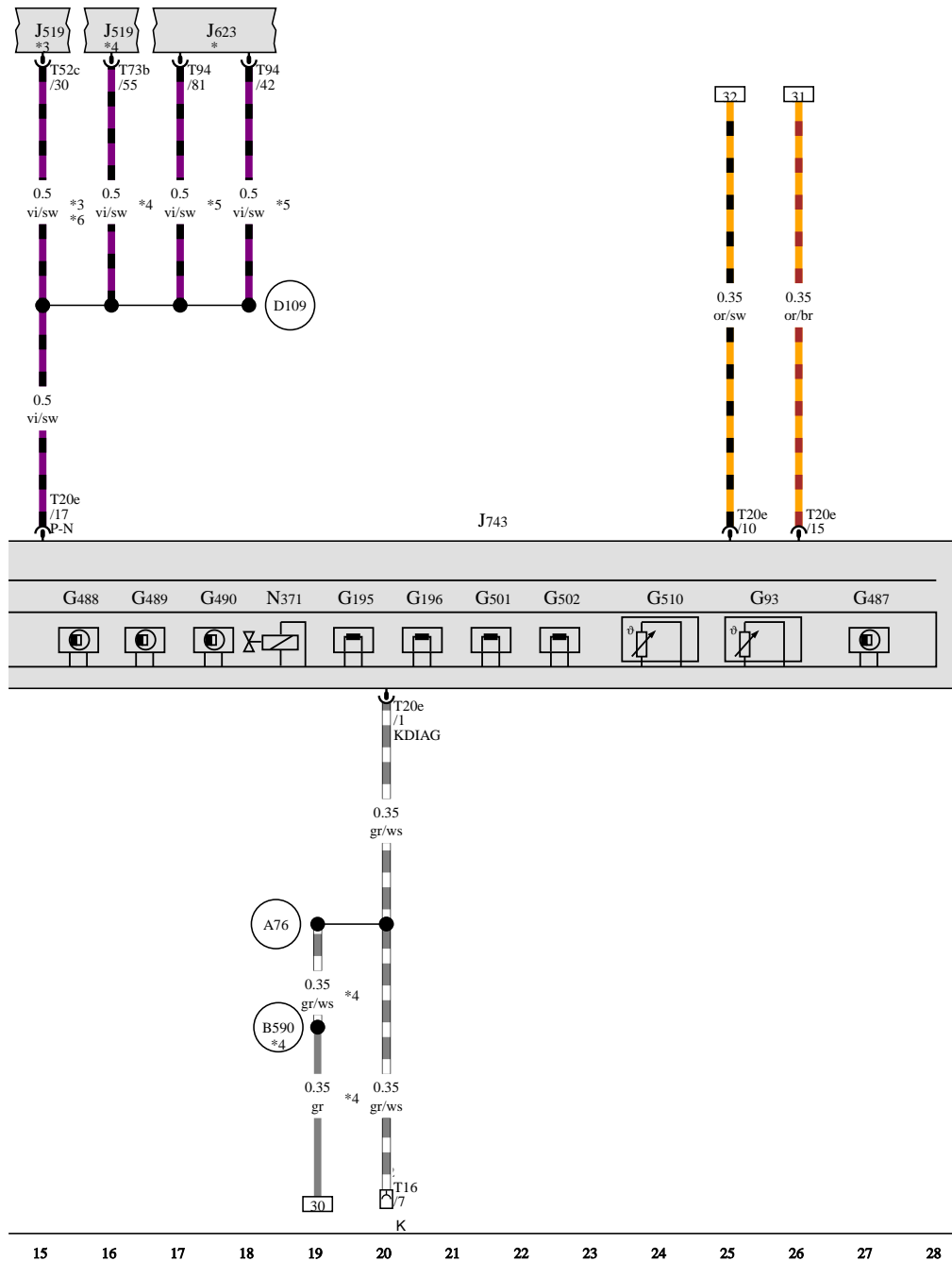
Dual-Clutch Transmission Mechatronic

- G93 Transmission Fluid Temperature Sensor
- G195 Transmission Output Speed Sensor
- G196 Transmission Output Speed Sensor 2
- G487 Gear Position Distance Sensor 1
- G488 Gear Position Distance Sensor 2
- G489 Gear Position Distance Sensor 3
- G490 Gear Position Distance Sensor 4
- G501 Drive Axle Speed Sensor 1
- G502 Drive Axle Speed Sensor 2
- G510 Temperature Sensor in Control Module
- J519 Vehicle Electrical System Control Module
- J623 Engine/Motor Control Module
- J743 Dual-Clutch Transmission Mechatronic
- N371 Automatic Transmission Pressure Regulating Valve 6
- T16 16-Pin Connector
- T20e 20-Pin Connector
- T52c 52-Pin Connector
- T73b 73-Pin Connector
- T94 94-Pin Connector

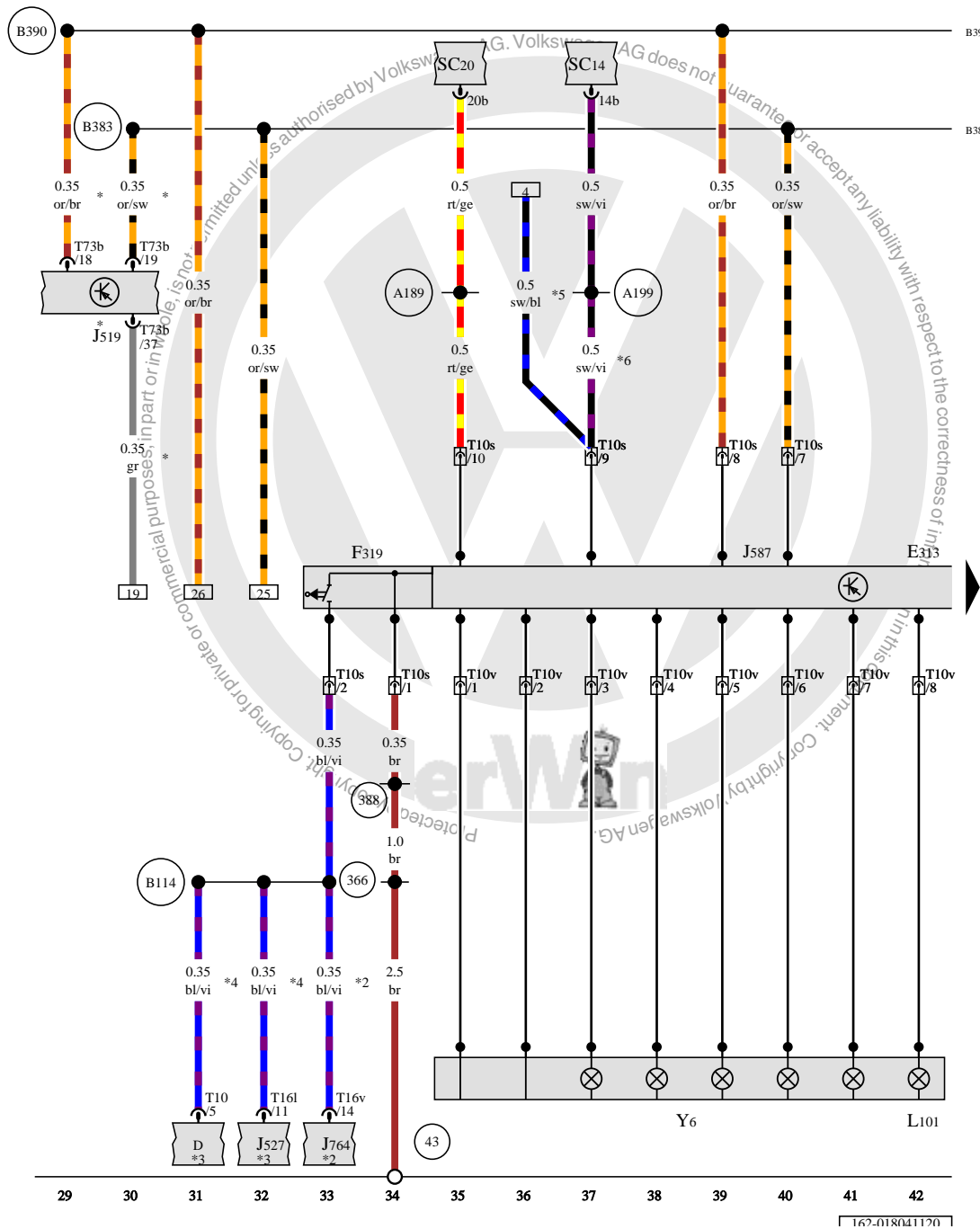
- A76 Ks-Diagnostic Lead Connection (in Instrument Panel Wiring Harness)
- B590 KS-Diagnostic Cable Connection (in Interior Wiring Harness)
- D109 Connection 7 (in Engine/Motor Compartment Wiring Harness)

- * Refer to Applicable Engine Wiring Diagram
- *2 Diagnostic Connector
- *3 For Vehicles with High Equipment (AW1)
- *4 For Vehicles with Low Equipment (AW0)
- *5 For Vehicles with a 1.6L Engine
- *6 Diameter Depends on Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



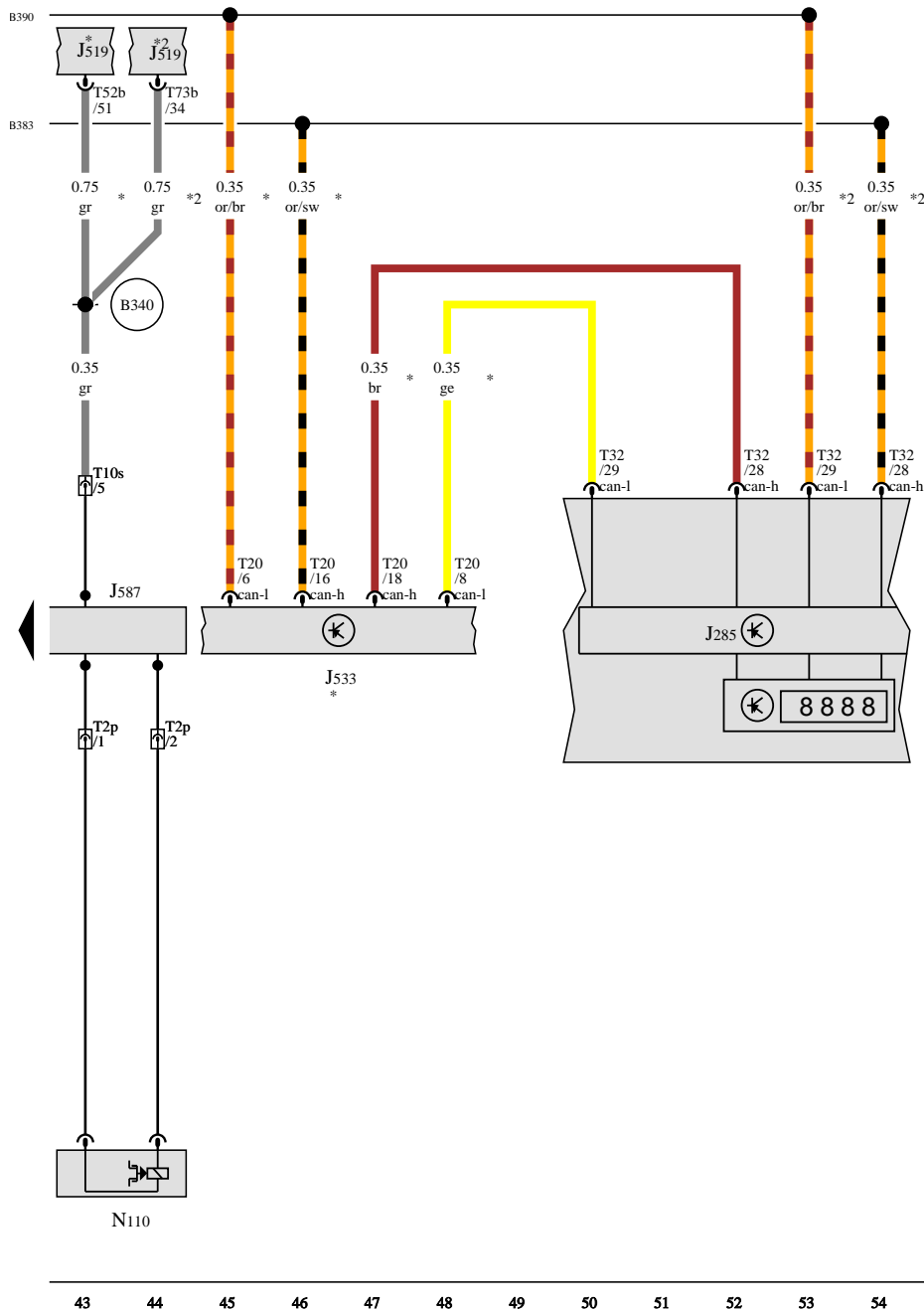
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ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
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 or = orange
 rs = pink

Selector Lever Sensor System Control Module, Selector Lever Scale Illumination Bulb, Transmission Range Display

- D Ignition/Starter Switch
- E313 Selector Lever
- F319 Selector Lever Park Position Lock Switch
- J519 Vehicle Electrical System Control Module
- J527 Steering Column Electronics Control Module
- J587 Selector Lever Sensor System Control Module
- J764 Electronic Steering Column Lock Control Module
- L101 Selector Lever Scale Illumination Bulb
- SC14 Fuse 14 (On Fuse Panel C)
- SC20 Fuse 20 (On Fuse Panel C)
- T10 10-Pin Connector
- T10s 10-Pin Connector
- T10v 10-Pin Connector
- T16l 16-Pin Connector
- T16v 16-Pin Connector
- T73b 73-Pin Connector
- Y6 Transmission Range Display
- 43 Ground Connection on A-Pillar, Lower Right
- 366 Ground Connection 1 (in Main Wiring Harness)
- 388 Ground Connection 23 (in Main Wiring Harness)
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- B114 Lock Switch Connection (in Interior Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with Low Equipment (AW0)
- *2 For Vehicles with Access/Start Authorization System Depending on Equipment
- *3 For Vehicles Without Access/Start Authorization System
- *4 Through May 2012
- *5 From June 2012



Instrument Cluster Control Module, Data Bus on Board Diagnostic Interface, Selector Lever Sensor System Control Module, Shift Lock Solenoid

- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J587 Selector Lever Sensor System Control Module
- N110 Shift Lock Solenoid
- T2p 2-Pin Connector
- T10s 10-Pin Connector
- T20 20-Pin Connector
- T32 32-Pin Connector
- T52b 52-Pin Connector
- T73b 73-Pin Connector

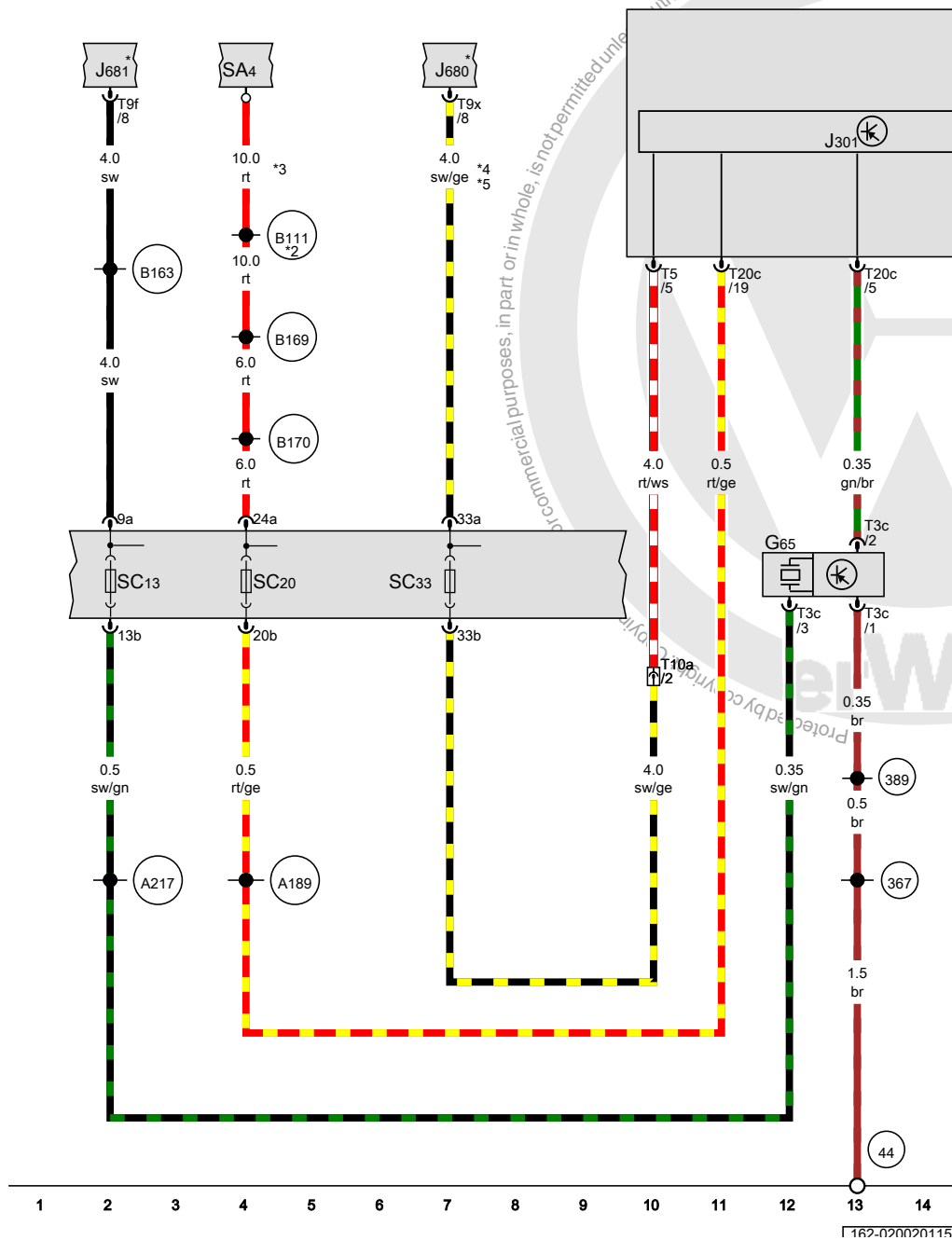
- B340 Connection 58d (in Main Wiring Harness) 1
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with High Equipment (AW1)
- *2 For Vehicles with Low Equipment (AW0)

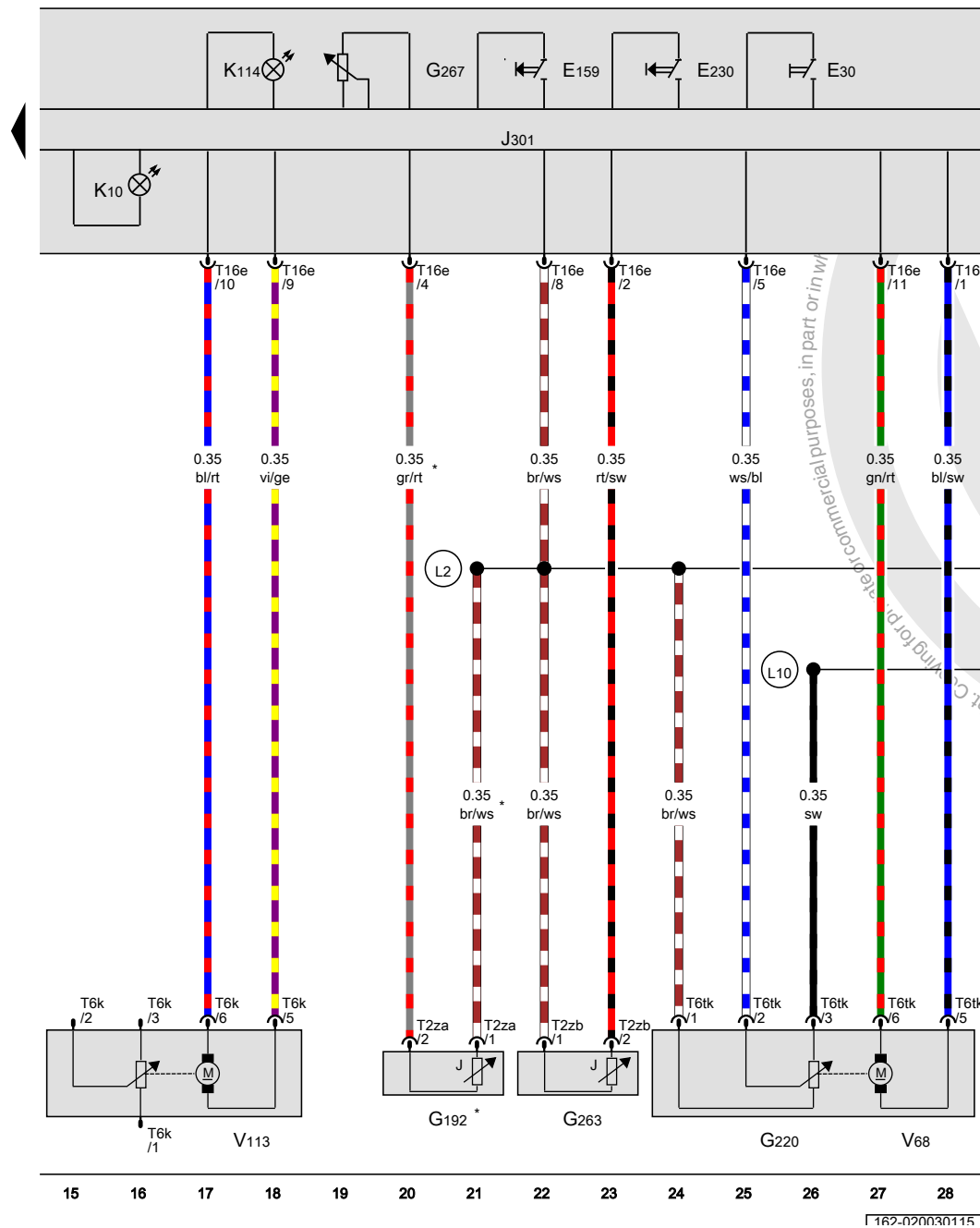
A/C system , (KH6),(9AP)

from April 2010



High pressure sensor, A/C control module





Footwell vent temperature sensor, Left temperature control door motor position sensor, Evaporator vent temperature sensor, A/C control module, Temperature control door motor

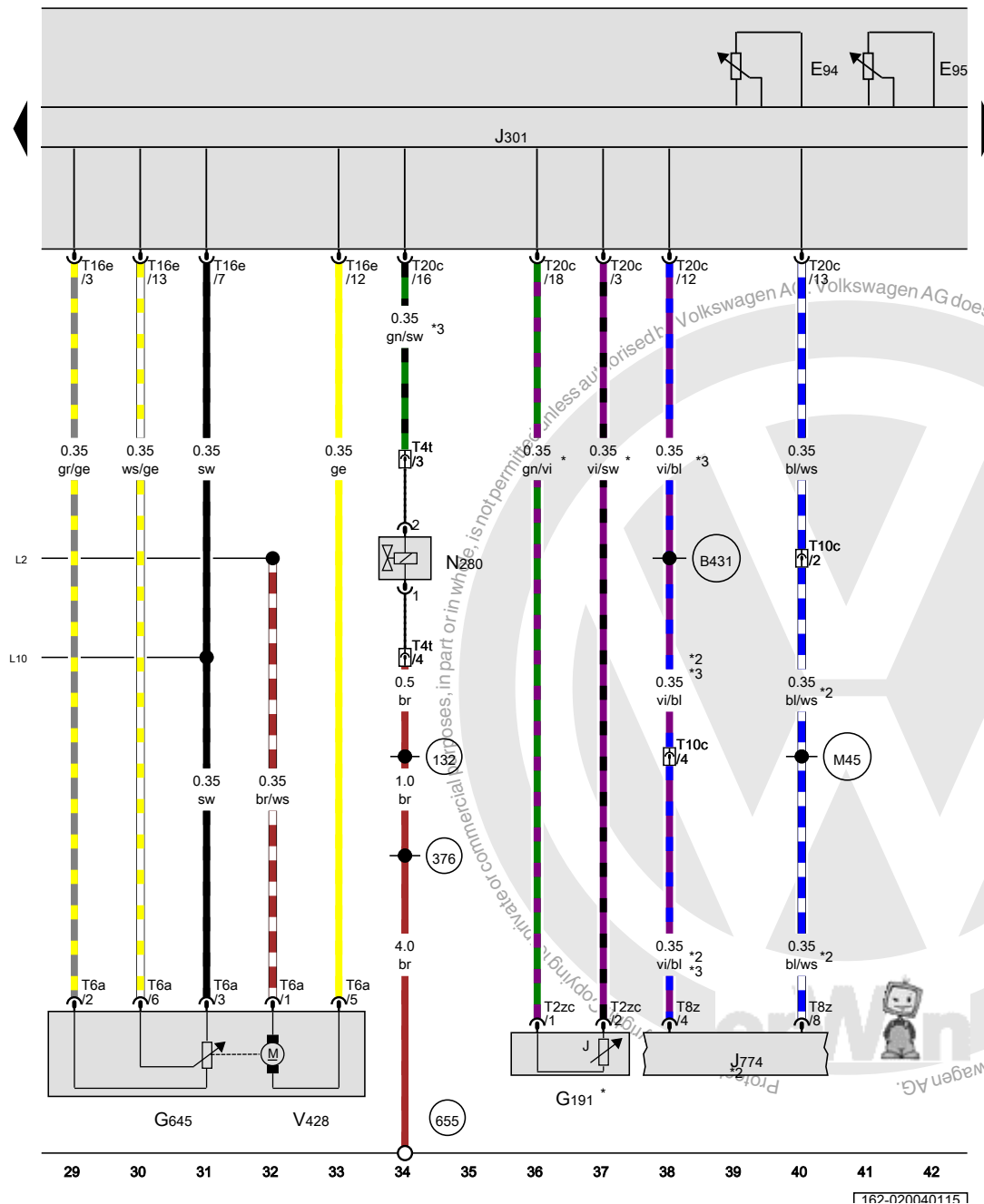
- E30 A/C switch
- E159 Fresh air/recirculation door switch
- E230 Rear window defogger button
- G192 Footwell vent temperature sensor
- G220 Left temperature control door motor position sensor
- G263 Evaporator vent temperature sensor
- G267 Temperature selector knob potentiometer
- J301 A/C control module
- K10 Rear window defogger indicator lamp
- K114 Fresh air and recirculation mode indicator lamp
- T2za 2-pin connector
- T2zb 2-pin connector
- T6k 6-pin connector
- T6tk 6-pin connector
- T16e 16-pin connector
- V68 Temperature control door motor
- V113 Recirculation door motor

L2 Connection (in A/C system wiring harness)

L10 Connection 2 (in A/C system wiring harness)

* Only for vehicles with Climatic

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Center vent temperature sensor, Air distribution door motor position sensor, A/C control module, A/C compressor regulator valve, Air distribution door motor

- E94 Heated driver seat adjuster
- E95 Heated front passenger seat adjuster
- G191 Center vent temperature sensor
- G645 Air distribution door motor position sensor
- J301 A/C control module
- J774 Front seat heating control module
- N280 A/C compressor regulator valve
- T2zc 2-pin connector
- T4t 4-pin connector, near the starter
- T6a 6-pin connector
- T8z 8-pin connector
- T10c 10-pin connector, on the heater
- T16e 16-pin connector
- T20c 20-pin connector
- V428 Air distribution door motor

132 Ground connection 3 (in engine compartment wiring harness)

376 Ground connection 11 (in main wiring harness)

655 Ground connection on left headlamp

B431 Seat heating connection (in main wiring harness)

L2 Connection (in A/C system wiring harness)

E10 Connection 2 (in A/C system wiring harness)

M45 Connection 5 (in driver seat wiring harness)

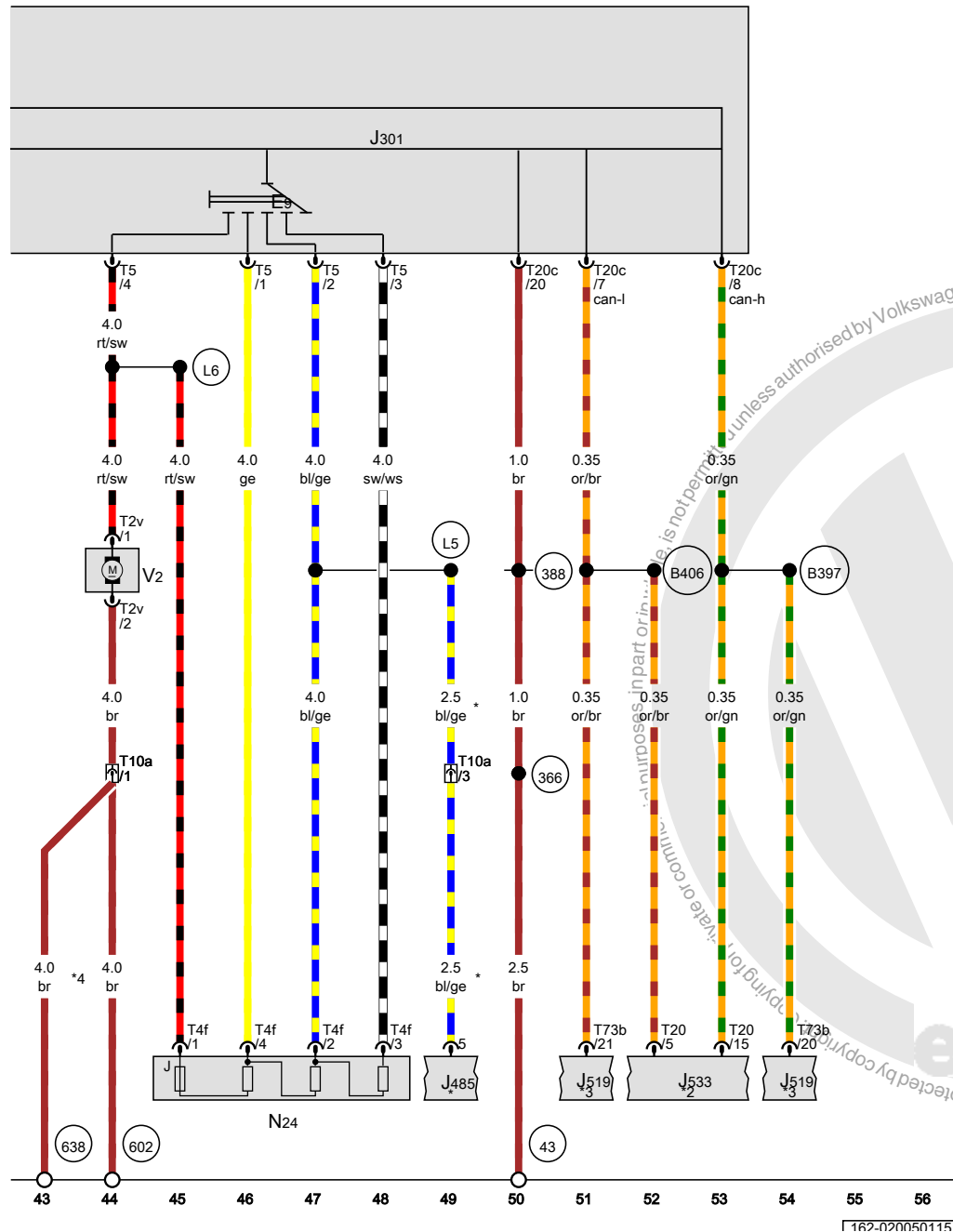
* Only for vehicles with Climatic

*2 Only for vehicles with an auxiliary heater

*3 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
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- rs = pink

Fresh air blower switch, A/C control module, Fresh air blower series resistor with fuse, Fresh air blower



- E9 Fresh air blower switch
- J301 A/C control module
- J485 Parking heater operation relay
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- N24 Fresh air blower series resistor with fuse
- T2v 2-pin connector
- T4f 4-pin connector
- T5 5-pin connector
- T10a 10-pin connector, on the heater
- T20 20-pin connector
- T20c 20-pin connector
- T73b 73-pin connector
- V2 Fresh air blower

- 43 Ground connection on A-pillar, lower right
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 602 Ground connection in left front footwell
- 638 Ground connection on right A-pillar
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- L5 Connection 1 (in A/C unit wiring harness)
- L6 Connection 2 (in A/C unit wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

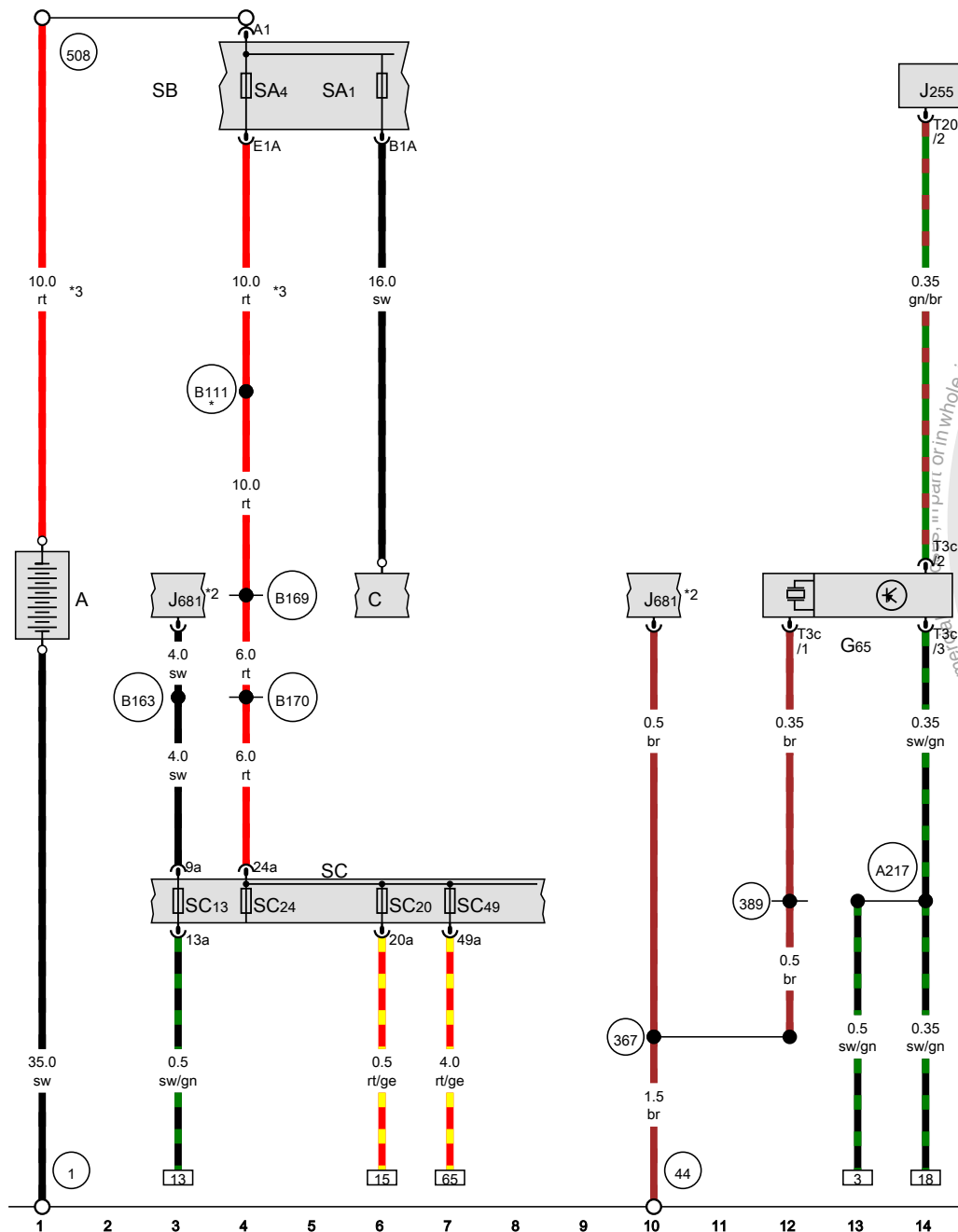
- * Only for vehicles with auxiliary coolant heater
- *2 only for vehicles with High equipment (AW1)
- *3 only for vehicles with Low equipment (AW0)
- *4 Only for right-hand drive vehicles

Climatronic , (9AK)

from October 2010



Battery, High pressure sensor, Climatronic control module



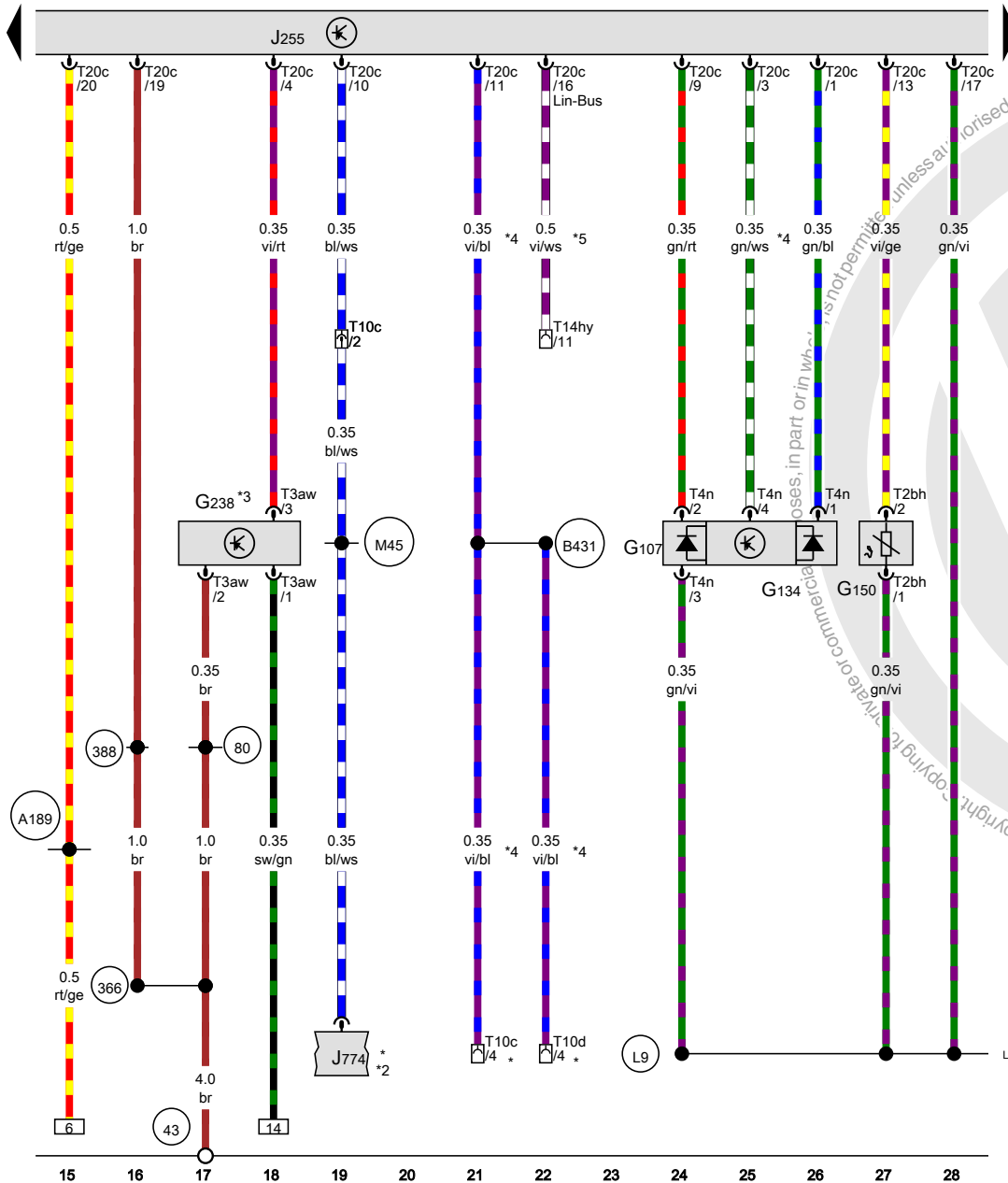
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- A Battery
- C Generator
- G65 High pressure sensor
- J255 Climatronic control module
- J681 Terminal 15 power supply relay 2
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SC Fuse panel C
- SC13 Fuse 13 (on fuse panel C)
- SC20 Fuse 20 (on fuse panel C)
- SC24 Fuse 24 (on fuse panel C)
- SC49 Fuse 49 (on fuse panel C)
- T3c 3-pin connector
- T20c 20-pin connector

- 1 Ground strap, battery to body
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)

- * Omitted as a running change
- *2 Refer to applicable standard equipment wiring diagram
- *3 16.0 diameter possible

Sunlight photo sensor, Left vent temperature sensor, Climatronic control module



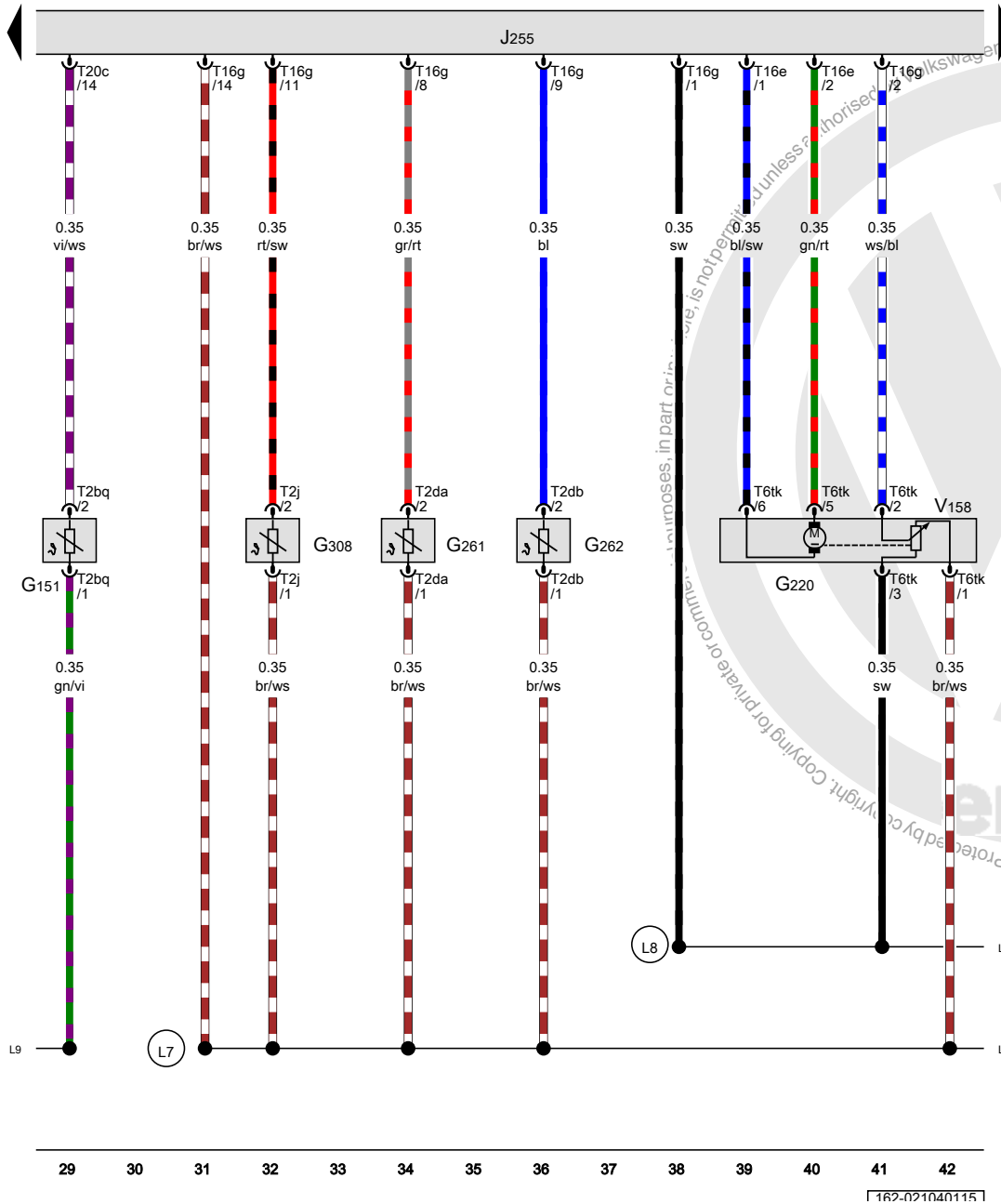
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- G107 Sunlight photo sensor
- G134 Sunlight photo sensor 2
- G150 Left vent temperature sensor
- G238 Air quality sensor
- J255 Climatronic control module
- J774 Front seat heating control module
- T2bh 2-pin connector
- T3aw 3-pin connector
- T4n 4-pin connector
- T10c 10-pin connector
- T10d 10-pin connector
- T14hy 14-pin connector
- T20c 20-pin connector

- 43 Ground connection on A-pillar, lower right
- 80 Ground connection 1 (in instrument cluster wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- A189 Positive connection 5 (30a) (in instrument panel wiring harness)
- B431 Seat heating connection (in main wiring harness)
- L9 Connection 1 (in A/C-system wiring harness)
- M45 Connection 5 (in driver seat wiring harness)

- * Only for vehicles with an auxiliary heater
- *2 Refer to the applicable heated seats wiring diagram
- *3 Depending on equipment
- *4 The color of the wires depends on vehicle equipment
- *5 only for vehicles with hybrid drive

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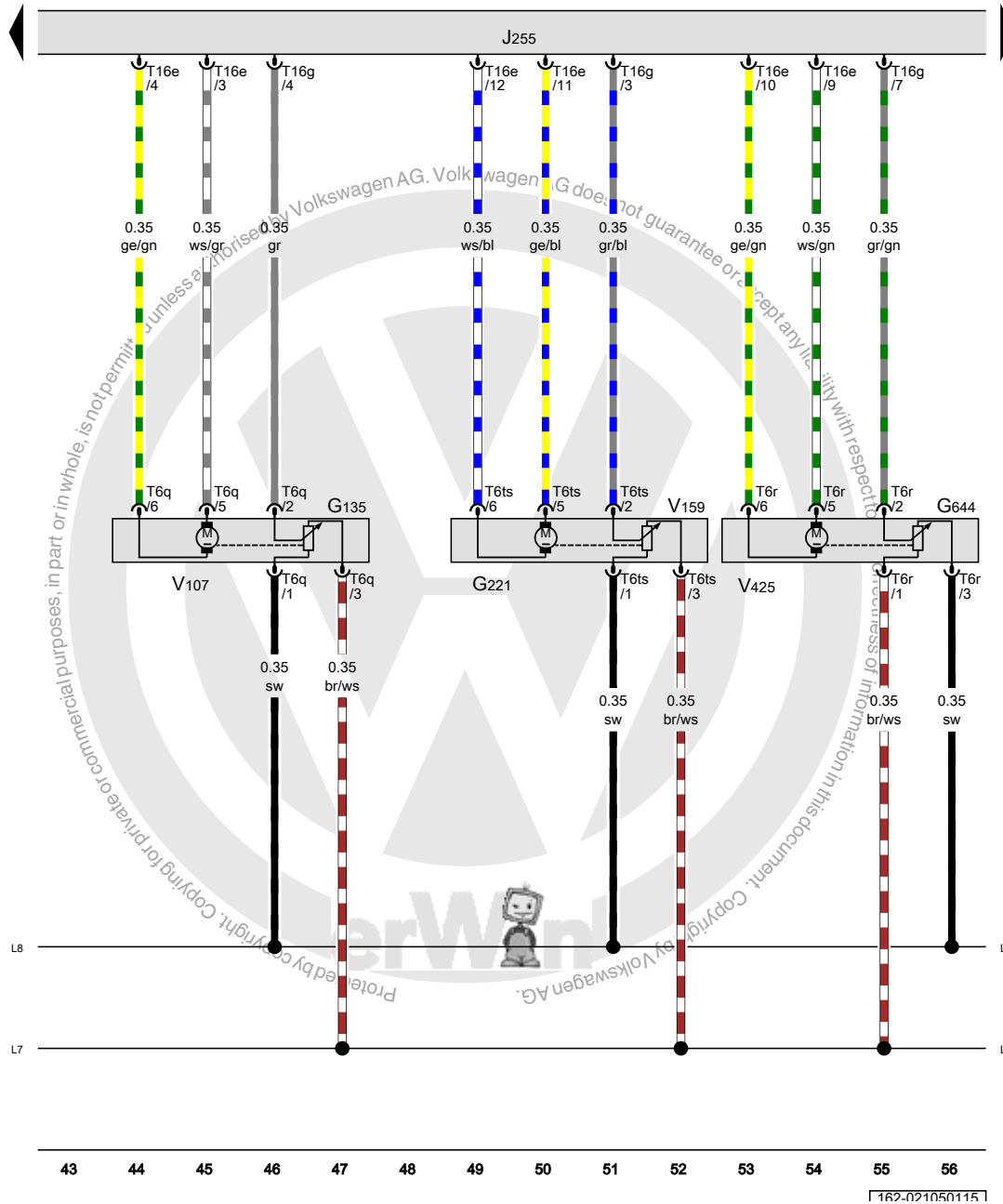


Right vent temperature sensor, Left temperature control door motor position sensor, Left footwell vent temperature sensor, Right footwell vent temperature sensor, Evaporator temperature sensor, Climatronic control module, Left temperature control door motor

- G151 Right vent temperature sensor
- G220 Left temperature control door motor position sensor
- G261 Left footwell vent temperature sensor
- G262 Right footwell vent temperature sensor
- G308 Evaporator temperature sensor
- J255 Climatronic control module
- T2bq 2-pin connector
- T2da 2-pin connector
- T2db 2-pin connector
- T2j 2-pin connector
- T6tk 6-pin connector
- T16e 16-pin connector
- T16g 16-pin connector
- T20c 20-pin connector
- V158 Left temperature control door motor

- (L7) Connection 3 (in A/C unit wiring harness)
- (L8) Connection 4 (in A/C unit wiring harness)
- (L9) Connection 1 (in A/C system wiring harness)

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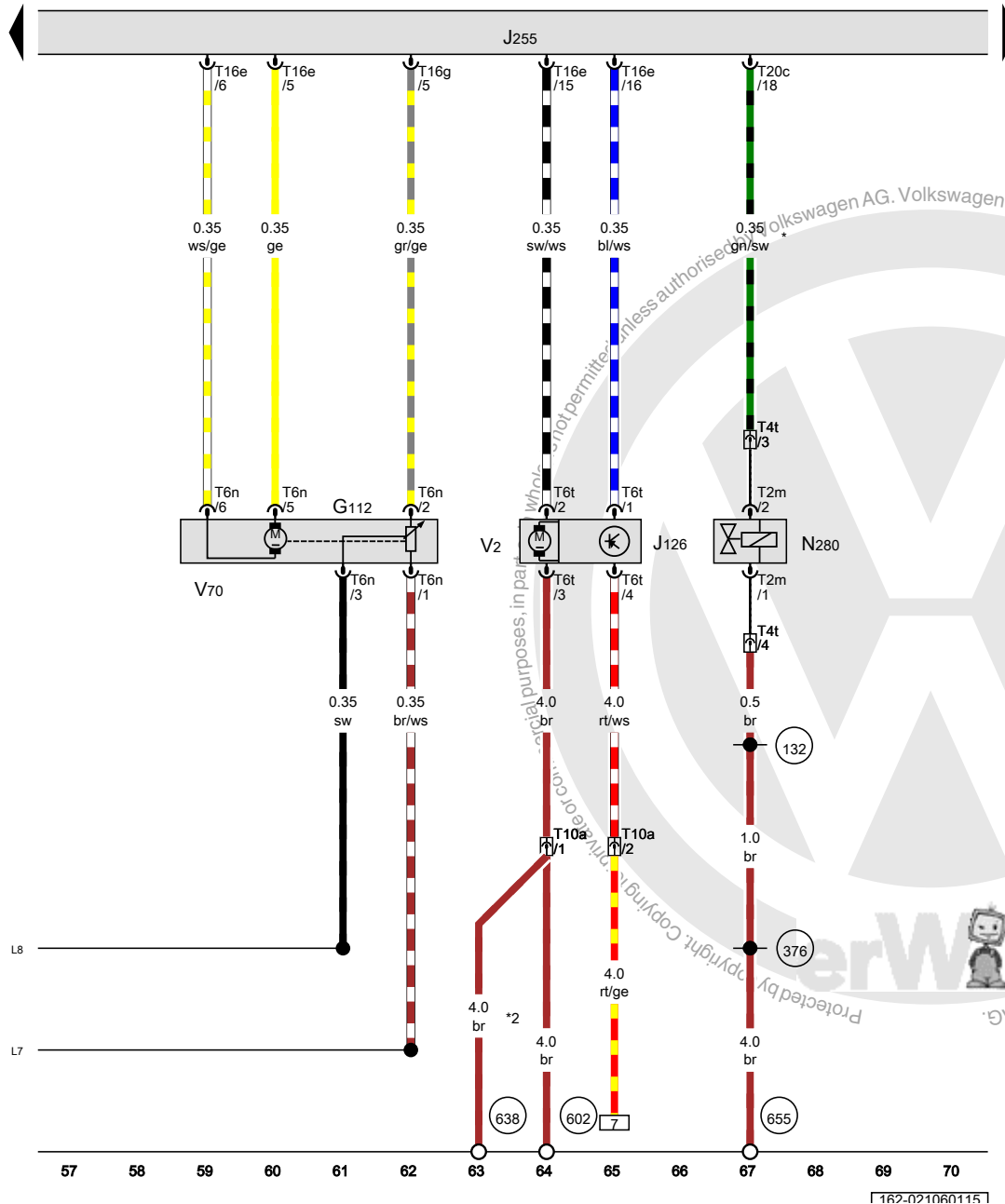
Defroster door motor position sensor, Right temperature control door motor position sensor, Fresh air/recirculating air/back pressure door motor position sensor, Climatronic control module, Defroster door motor, Right temperature control door motor, Fresh air/recirculating air/back pressure door motor

- G135 Defroster door motor position sensor
- G221 Right temperature control door motor position sensor
- G644 Fresh air/recirculating air/back pressure door motor position sensor
- J255 Climatronic control module
- T6q 6-pin connector
- T6r 6-pin connector
- T6ts 6-pin connector
- T16e 16-pin connector
- T16g 16-pin connector
- V107 Defroster door motor
- V159 Right temperature control door motor
- V425 Fresh air/recirculating air/back pressure door motor

L7 Connection 3 (in A/C unit wiring harness)

L8 Connection 4 (in A/C unit wiring harness)

Central door motor position sensor, Fresh air blower control module, Climatronic control module, A/C compressor regulator valve, Fresh air blower, Central air door motor

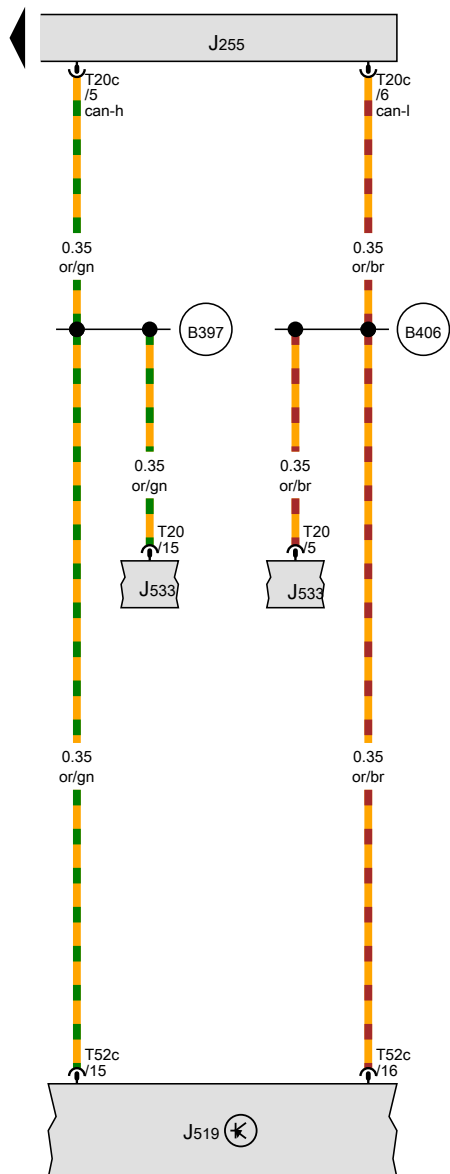


- G112 Central door motor position sensor
- J126 Fresh air blower control module
- J255 Climatronic control module
- N280 A/C compressor regulator valve
- T2m 2-pin connector
- T4t 4-pin connector
- T6n 6-pin connector
- T6t 6-pin connector
- T10a 10-pin connector
- T16e 16-pin connector
- T16g 16-pin connector
- T20c 20-pin connector
- V2 Fresh air blower
- V70 Central air door motor
- 132 Ground connection 3 (in engine compartment wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 602 Ground connection in left front footwell
- 638 Ground connection on right A-pillar
- 655 Ground connection on left headlamp
- L7 Connection 3 (in A/C unit wiring harness)
- L8 Connection 4 (in A/C unit wiring harness)
- * The color of the wires depends on vehicle equipment
- *2 Only for right-hand drive vehicles

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 vi = lilac
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 or = orange
 rs = pink

Climatronic control module, Vehicle electrical system control module

- J255 Climatronic control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- T20 20-pin connector
- T20c 20-pin connector
- T52c 52-pin connector
- (B397) Comfort system CAN bus high connection 1 (in main wiring harness)
- (B406) Comfort system CAN bus low connection 1 (in main wiring harness)

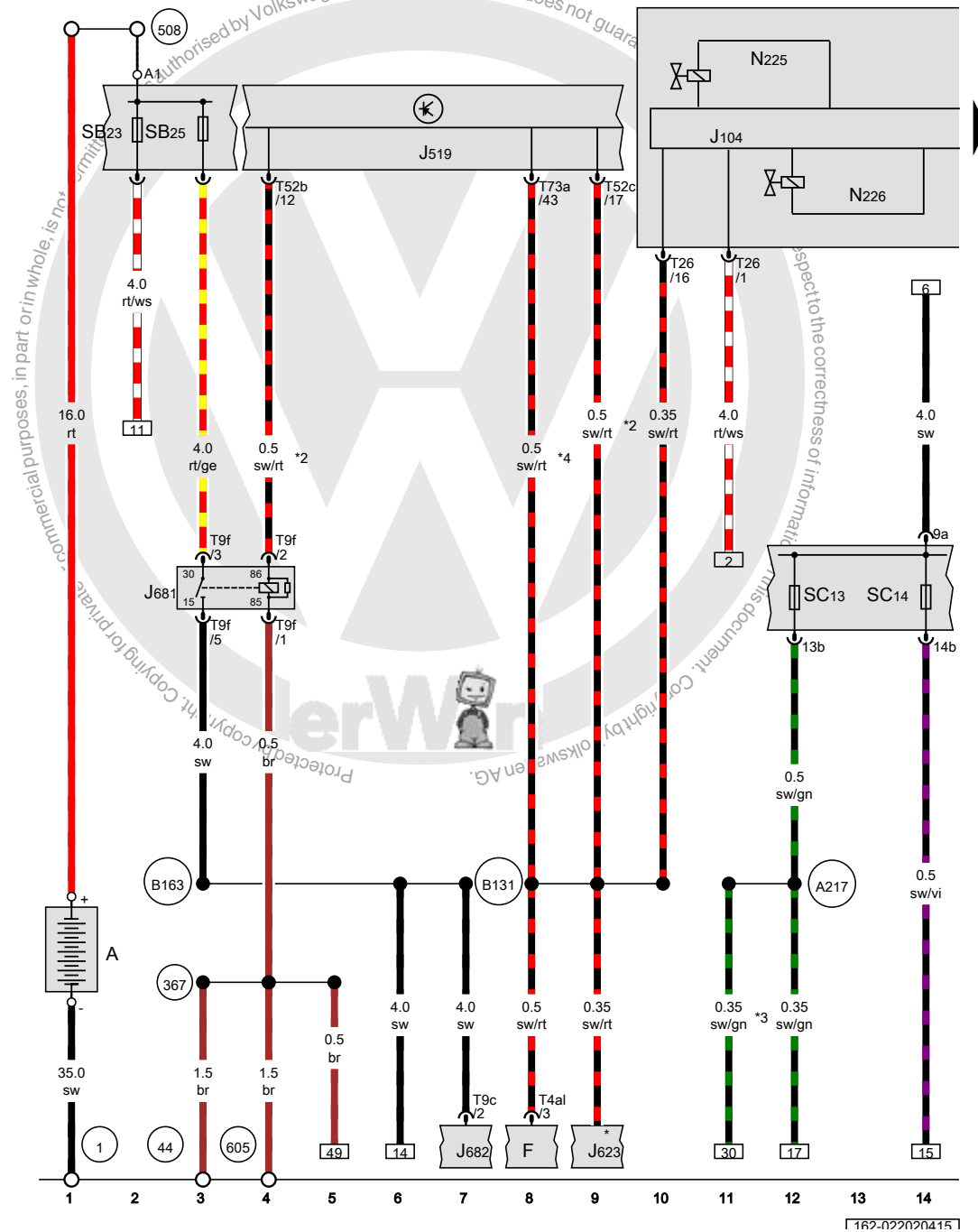


- ws = white
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Anti-Lock Brake System (ABS) , (1AC)

from April 2010



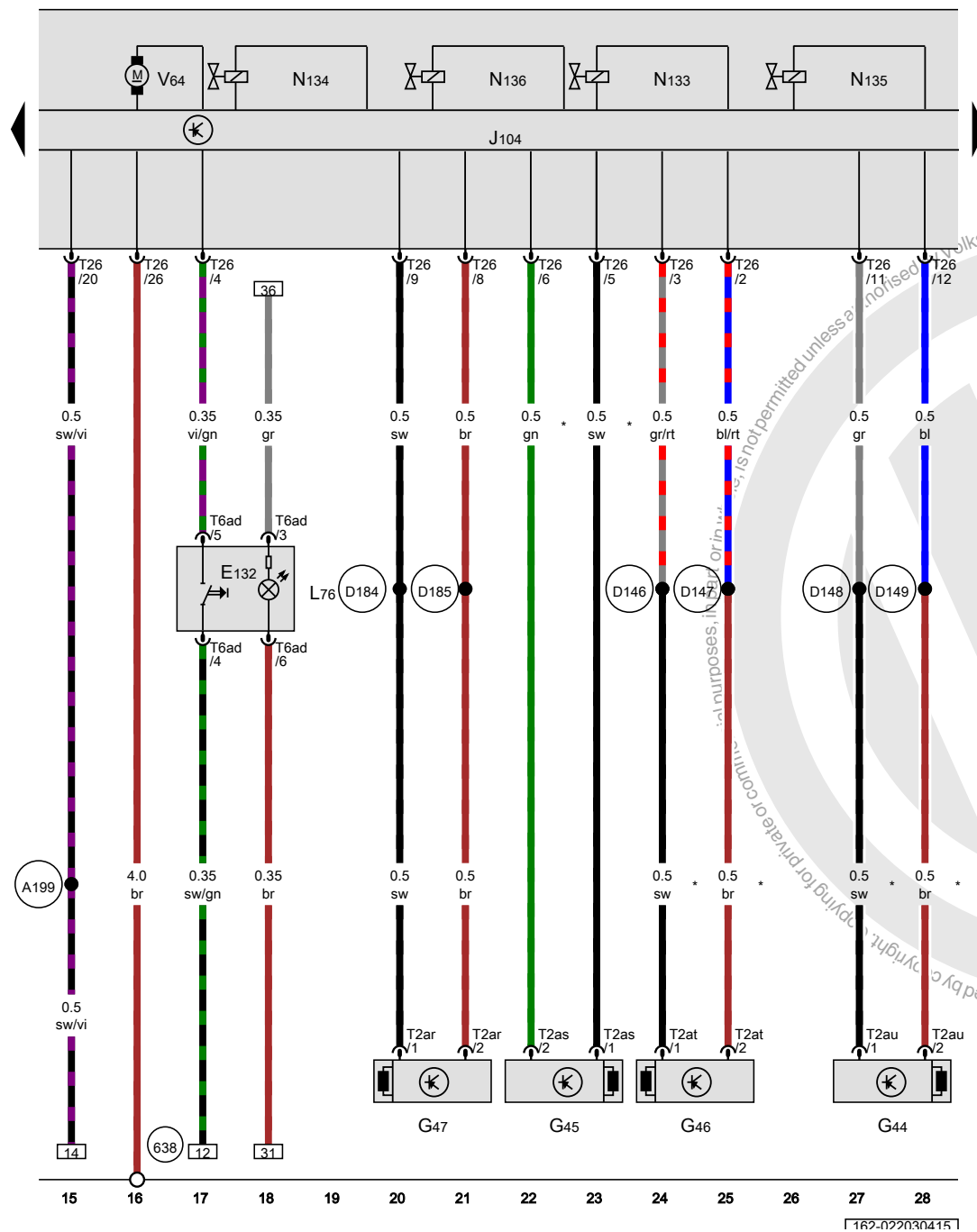


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Battery, ABS control module, Vehicle electrical control module system, Terminal 15 power supply relay 2

- A Battery
- F Brake lamp switch
- J104 ABS control module
- J519 Vehicle electrical control module system
- J623 Engine control module
- J681 Terminal 15 power supply relay 2
- J682 Terminal 50 power supply relay
- N225 Driving dynamics regulation switch valve 1
- N226 Driving dynamics regulation switch valve 2
- SC13 Fuse 13 (on fuse panel C)
- SC14 Fuse 14 (on fuse panel C)
- SB23 Fuse 23 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)
- T4al 4-pin connector
- T9c 9-pin connector
- T9f 9-pin connector
- T26 26-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T73a 73-pin connector
- T94 94-pin connector

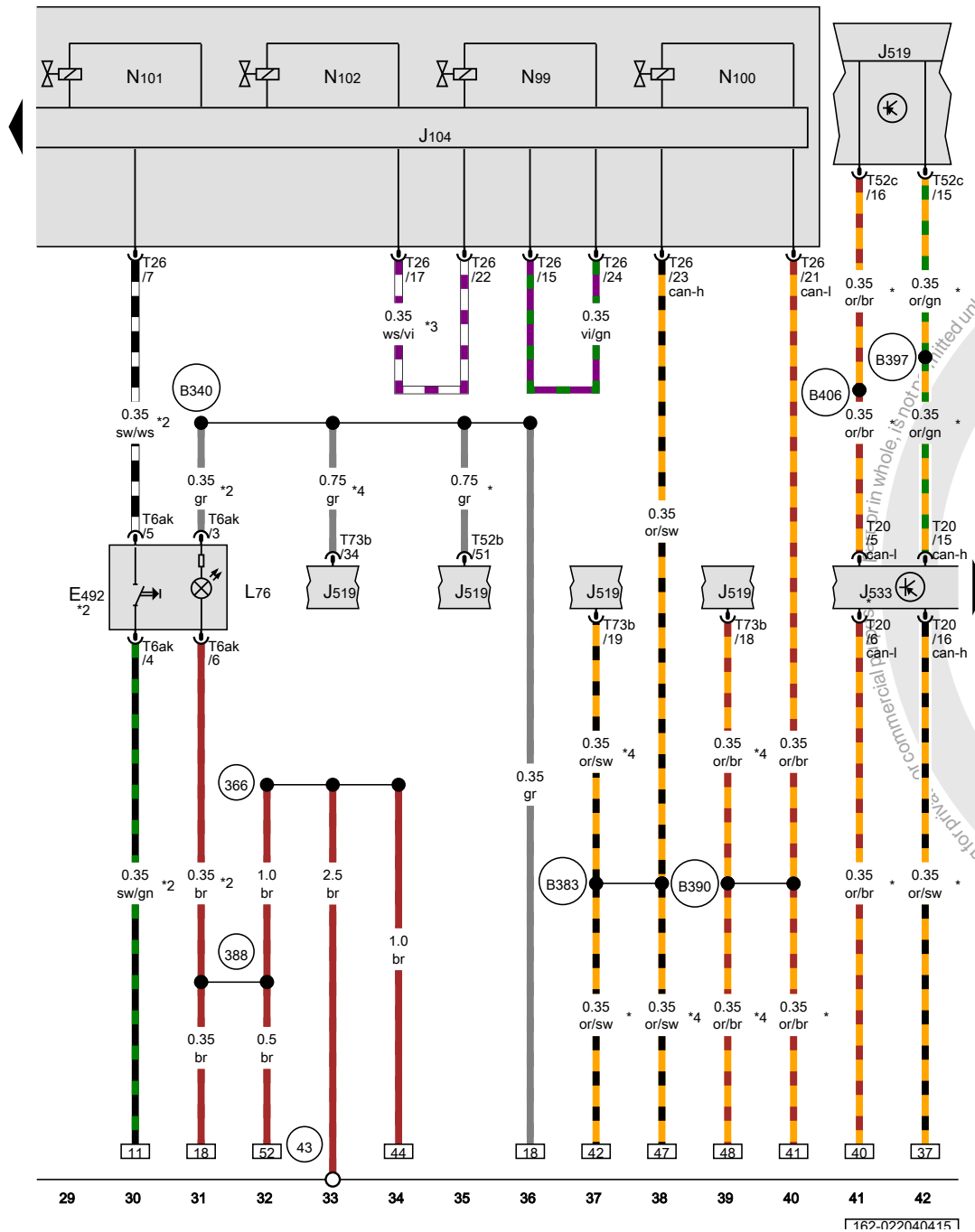
- 1 Ground strap, battery to body
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B131 Connection 54 (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- * Refer to applicable engine wiring diagram
- *2 only for vehicles with High equipment (AW1)
- *3 Only for vehicles with tire pressure monitoring
- *4 only for vehicles with Low equipment (AW0)



ASR switch, Right rear ABS wheel speed sensor, Right front ABS wheel speed sensor, Left rear ABS wheel speed sensor, Left front ABS wheel speed sensor, ABS control module

- E132 ASR switch
- G44 Right rear ABS wheel speed sensor
- G45 Right front ABS wheel speed sensor
- G46 Left rear ABS wheel speed sensor
- G47 Left front ABS wheel speed sensor
- J104 ABS control module
- L76 Push button illumination bulb
- N133 Right rear ABS inlet valve
- N134 Left rear ABS inlet valve
- N135 Right rear ABS outlet valve
- N136 Left rear ABS outlet valve
- T2ar Double connector
- T2as Double connector
- T2at Double connector
- T2au Double connector
- T6ad 6-pin connector
- T26 26-pin connector
- V64 ABS hydraulic pump
- 638 Ground connection on right A-pillar
- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- D146 Left rear speed sensor positive connection (in engine compartment wiring harness)
- D147 Left rear speed sensor negative connection (in engine compartment wiring harness)
- D148 Right rear speed sensor positive connection (in engine compartment wiring harness)
- D149 Right rear speed sensor negative connection (in engine compartment wiring harness)
- D184 Left front speed sensor positive connection (in engine compartment wiring harness)
- D185 Left front speed sensor negative connection (in engine compartment wiring harness)
- * Diameter depends on equipment

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- rs = pink



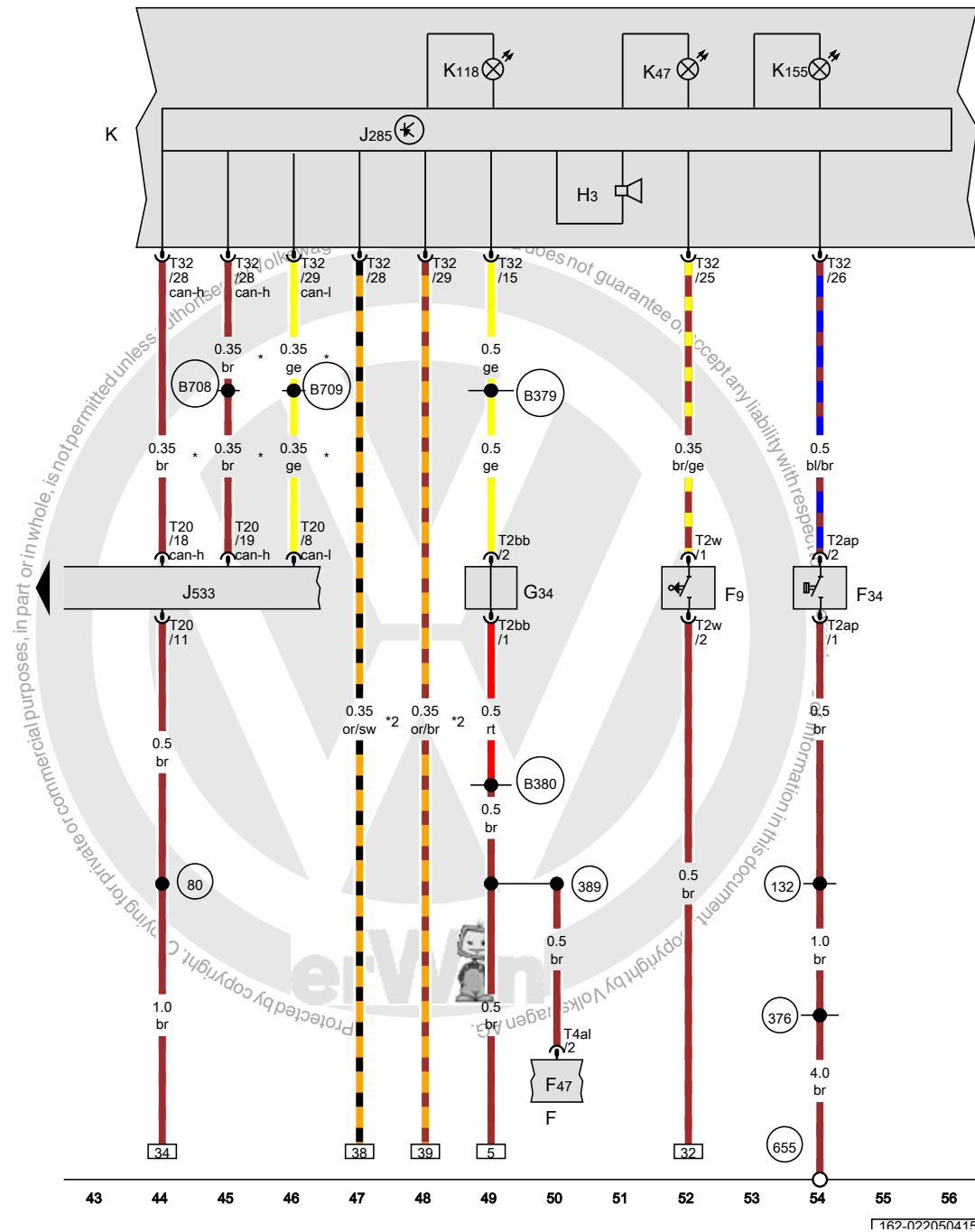
Tire pressure monitoring display button, ABS control module, Vehicle electrical control module system, Data bus on board diagnostic interface

- E492 Tire pressure monitoring display button
- J104 ABS control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- L76 Push button illumination bulb
- N99 Right front ABS inlet valve
- N100 Right front ABS outlet valve
- N101 Left front ABS inlet valve
- N102 Left front ABS outlet valve
- T6ak 6-pin connector
- T20 20-pin connector
- T26 26-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T73b 73-pin connector

- 43 Ground connection on A-pillar, lower right
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

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 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

- * only for vehicles with High equipment (AW1)
- *2 Only for vehicles with tire pressure monitoring
- *3 Omitted as a running change
- *4 only for vehicles with Low equipment (AW0)



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Parking brake indicator lamp switch, Brake fluid level warning switch, Left front brake pad wear sensor, Warning buzzer and tone, Instrument cluster control module, Data bus on board diagnostic interface, ABS indicator lamp, Brake system indicator lamp, ASR/ESP indicator lamp

- F Brake lamp switch
- F9 Parking brake indicator lamp switch
- F34 Brake fluid level warning switch
- F47 Brake pedal switch
- G34 Left front brake pad wear sensor
- H3 Warning buzzer and tone
- J285 Instrument cluster control module
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- K Instrument cluster
- K47 ABS indicator lamp
- K118 Brake system indicator lamp
- K155 ASR/ESP indicator lamp
- T2ap Double connector
- T2bb Double connector
- T2w Double connector
- T4al 4-pin connector
- T20 20-pin connector
- T32 32-pin connector

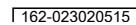
- 80 Ground connection 1 (in instrument cluster wiring harness)
- 132 Ground connection 3 (in engine compartment wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 655 Ground connection on left headlamp
- B379 Brake wear indicator connection 1 (in main wiring harness)
- B380 Brake wear indicator connection 2 (in main wiring harness)
- B708 Instrument cluster CAN bus high connection 1 (in main wiring harness)
- B709 Instrument cluster CAN bus low connection 1 (in main wiring harness)

- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)

Anti-Lock Brake System (ABS) with EDL and ASR and ESP , (1AS),(1AT)

from April 2010

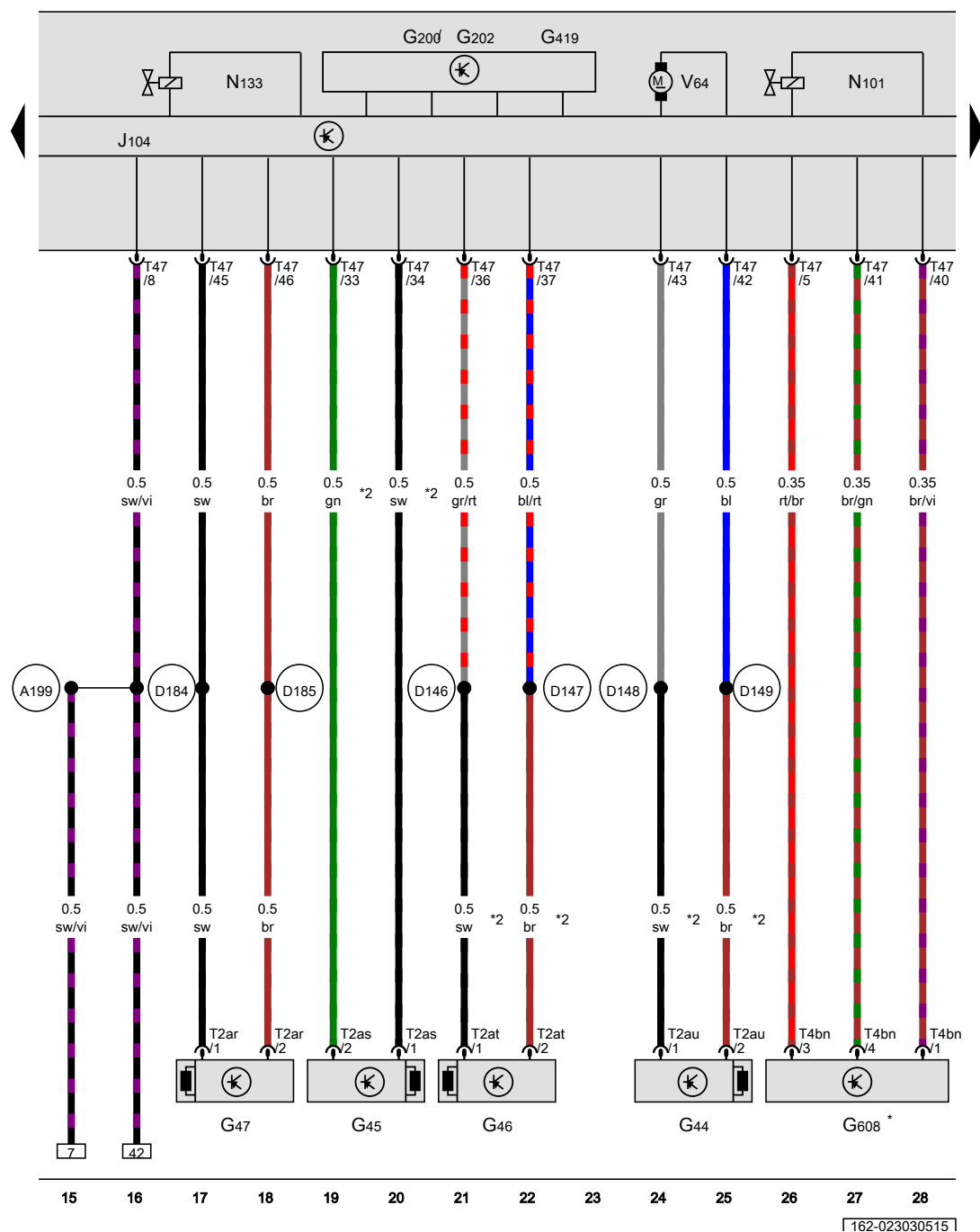




| | A | Battery |
|--|------|---------------|
| | B | Starter |
| | J104 | ABS control |
| | J681 | Terminal 15 |
| | J682 | Terminal 50 |
| | J935 | Converter box |
| | N134 | Left rear ABS |
| | SC13 | Fuse 13 (on |
| | SC14 | Fuse 14 (on |
| | SB16 | Fuse 16 (on |
| | SB23 | Fuse 23 (on |
| | SB25 | Fuse 25 (on |
| | SC | Fuse panel |
| | T9f | 9-pin connec |
| | T47 | 47-pin connec |
| | 1 | Ground strap |
| | 44 | Ground conn |
| | 367 | Ground conn |
| | 389 | Ground conn |
| | 508 | Terminal 30 |
| | 605 | Ground conn |
| | 638 | Ground conn |

| | |
|------|----------------------------------|
| A | Battery |
| B | Starter |
| J104 | ABS control module |
| J681 | Terminal 15 power supply relay 2 |
| J682 | Terminal 50 power supply relay |
| J935 | Converter box |
| N134 | Left rear ABS inlet valve |
| SC13 | Fuse 13 (on fuse panel C) |
| SC14 | Fuse 14 (on fuse panel C) |
| SB16 | Fuse 16 (on fuse panel B) |
| SB23 | Fuse 23 (on fuse panel B) |
| SB25 | Fuse 25 (on fuse panel B) |
| SC | Fuse panel C |
| T9f | 9-pin connector |
| T47 | 47-pin connector |

- B163** Positive connection 1 (15) (in interior wiring harness)
- * Running change
- *2 Refer to applicable standard equipment wiring diagram
- *3 Only for vehicles with tire pressure monitoring
- *4 only for vehicles with Low equipment (AW0)
- *5 only for vehicles with High equipment (AW1)

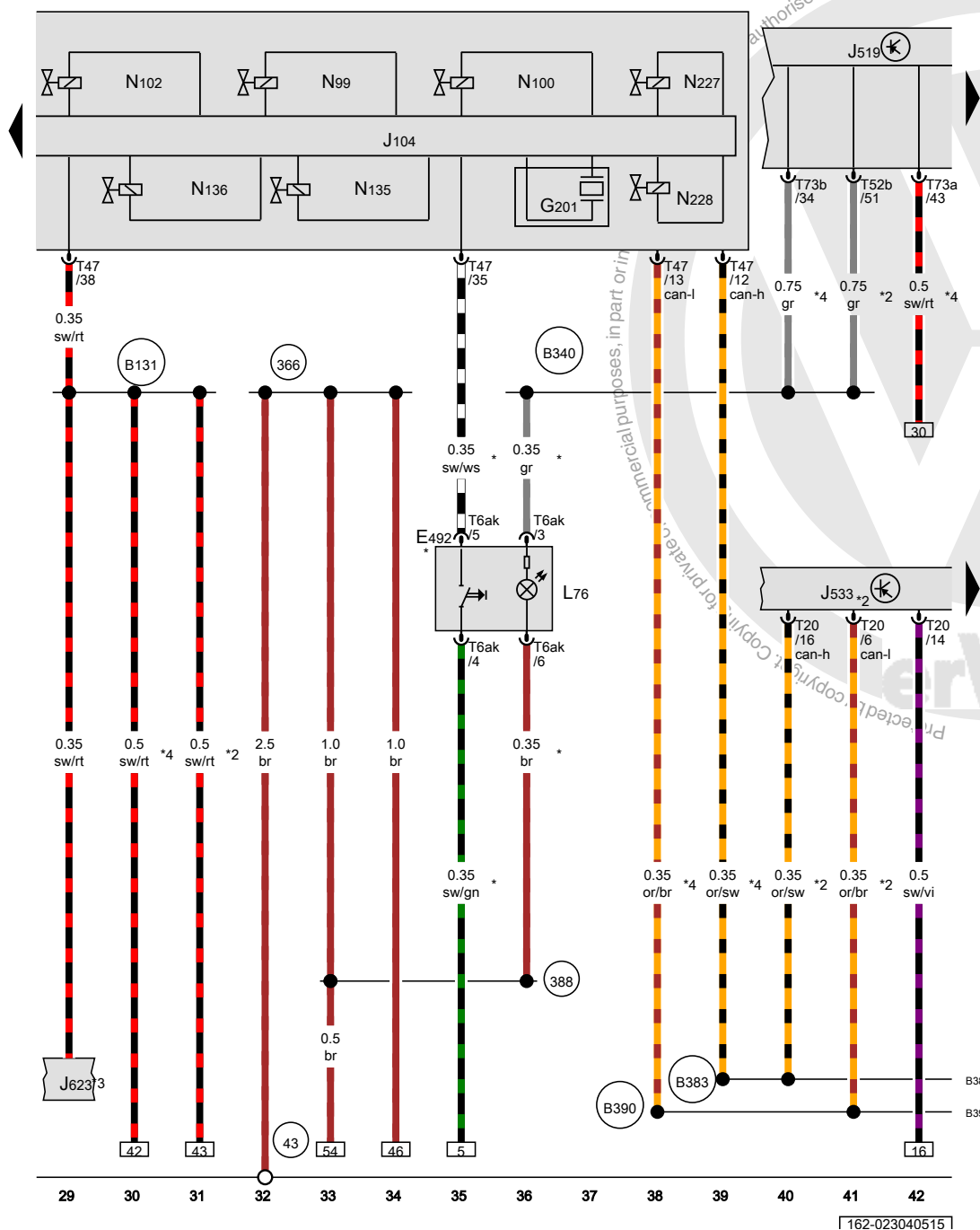


Right rear ABS wheel speed sensor, Right front ABS wheel speed sensor, Left rear ABS wheel speed sensor, Left front ABS wheel speed sensor, Transverse acceleration sensor, Rotation rate sensor, ESP sensor unit, Vacuum sensor, ABS control module

- G44 Right rear ABS wheel speed sensor
- G45 Right front ABS wheel speed sensor
- G46 Left rear ABS wheel speed sensor
- G47 Left front ABS wheel speed sensor
- G200 Transverse acceleration sensor
- G202 Rotation rate sensor
- G419 ESP sensor unit
- G608 Vacuum sensor
- J104 ABS control module
- N101 Left front ABS inlet valve
- N133 Right rear ABS inlet valve
- T2ar Double connector
- T2as Double connector
- T2at Double connector
- T2au Double connector
- T4bn 4-pin connector
- T47 47-pin connector
- V64 ABS hydraulic pump

- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- D146 Left rear speed sensor positive connection (in engine compartment wiring harness)
- D147 Left rear speed sensor negative connection (in engine compartment wiring harness)
- D148 Right rear speed sensor positive connection (in engine compartment wiring harness)
- D149 Right rear speed sensor negative connection (in engine compartment wiring harness)
- D184 Left front speed sensor positive connection (in engine compartment wiring harness)
- D185 Left front speed sensor negative connection (in engine compartment wiring harness)
- * Only for vehicles with a hydraulic brake booster
Diameter depends on equipment

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- sw = black
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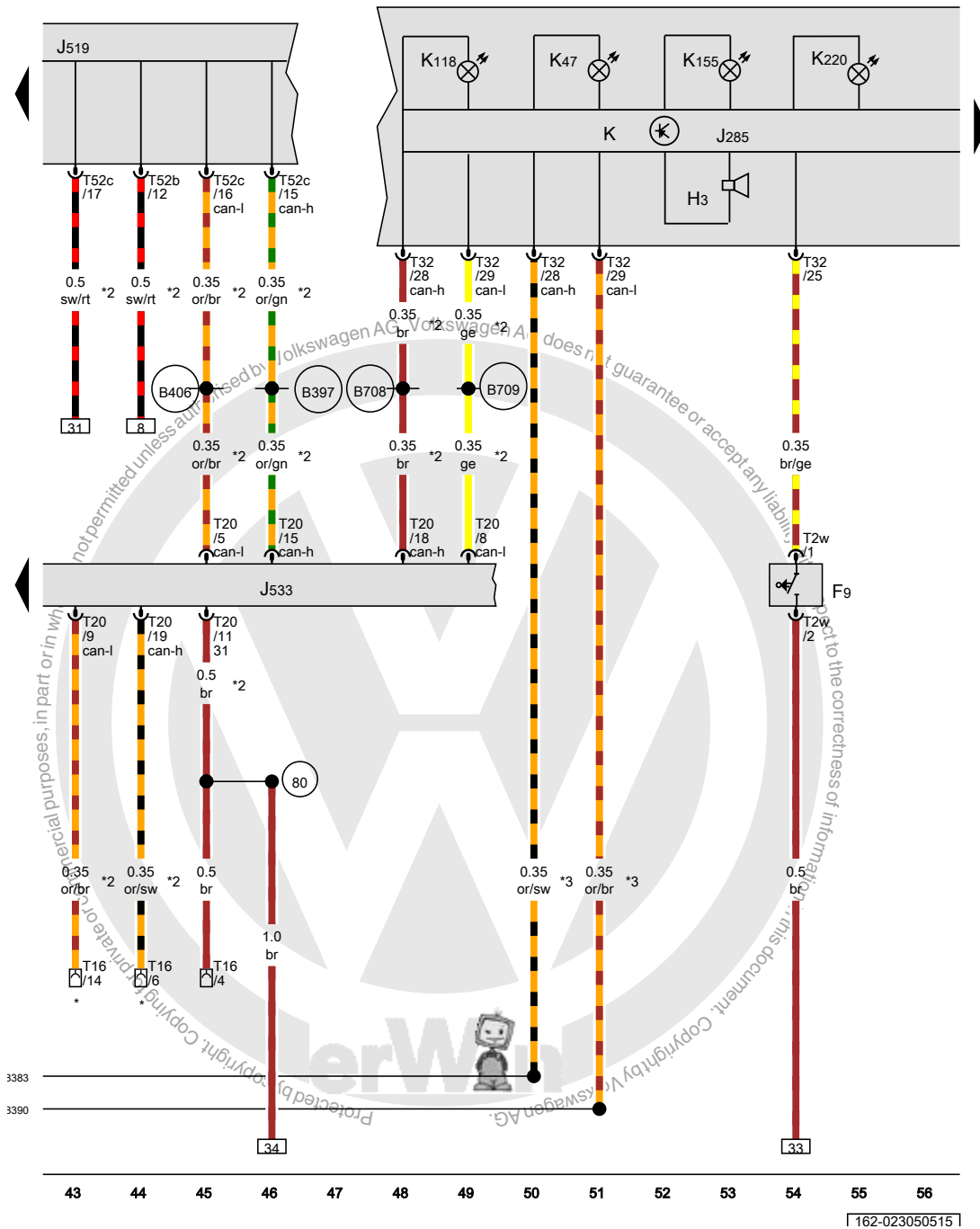
Tire pressure monitoring display button, ABS control module, Vehicle electrical control module system, Data bus on board diagnostic interface

- E492 Tire pressure monitoring display button
- G201 Brake pressure sensor 1
- J104 ABS control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- J623 Engine control module
- L76 Push button illumination bulb
- N99 Right front ABS inlet valve
- N100 Right front ABS outlet valve
- N102 Left front ABS outlet valve
- N135 Right rear ABS outlet valve
- N136 Left rear ABS outlet valve
- N227 Driving dynamics regulation high pressure switch valve 1
- N228 Driving dynamics regulation high pressure switch valve 2
- T6ak 6-pin connector
- T20 20-pin connector
- T47 47-pin connector
- T52b 52-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- 43 Ground connection on A-pillar, lower right
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- B131 Connection 54 (in interior wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)

- * Only for vehicles with tire pressure monitoring
- *2 only for vehicles with High equipment (AW1)
- *3 Refer to applicable engine wiring diagram
- *4 only for vehicles with Low equipment (AW0)

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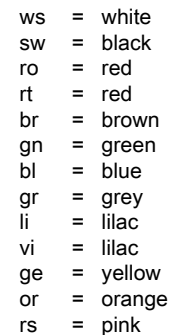
Parking brake indicator lamp switch, Warning buzzer and tone, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Instrument cluster, ABS indicator lamp, Brake system indicator lamp, ASR/ESP indicator lamp, Tire pressure monitoring display indicator lamp

- | | |
|------|---|
| F9 | Parking brake indicator lamp switch |
| H3 | Warning buzzer and tone |
| J285 | Instrument cluster control module |
| J519 | Vehicle electrical control module system |
| J533 | Data bus on board diagnostic interface, in the left footwell, near the center console |
| K | Instrument cluster |
| K47 | ABS indicator lamp |
| K118 | Brake system indicator lamp |
| K155 | ASR/ESP indicator lamp |
| K220 | Tire pressure monitoring display indicator lamp |
| T2w | Double connector |
| T16 | 16-pin connector |
| T20 | 20-pin connector |
| T32 | 32-pin connector |
| T52b | 52-pin connector |
| T52c | 52-pin connector |

- | | |
|------|---|
| 80 | Ground connection 1 (in instrument cluster wiring harness) |
| B383 | Powertrain CAN bus high connection 1 (in main wiring harness) |
| B390 | Powertrain CAN bus low connection 1 (in main wiring harness) |
| B397 | Comfort system CAN bus high connection 1 (in main wiring harness) |
| B406 | Comfort system CAN bus low connection 1 (in main wiring harness) |
| B708 | Instrument cluster CAN bus high connection 1 (in main wiring harness) |
| B709 | Instrument cluster CAN bus low connection 1 (in main wiring harness) |

- * Diagnostic connector
*2 only for vehicles with High equipment (AW1)
*3 only for vehicles with Low equipment (AW0)

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sensor, Instrument cluster

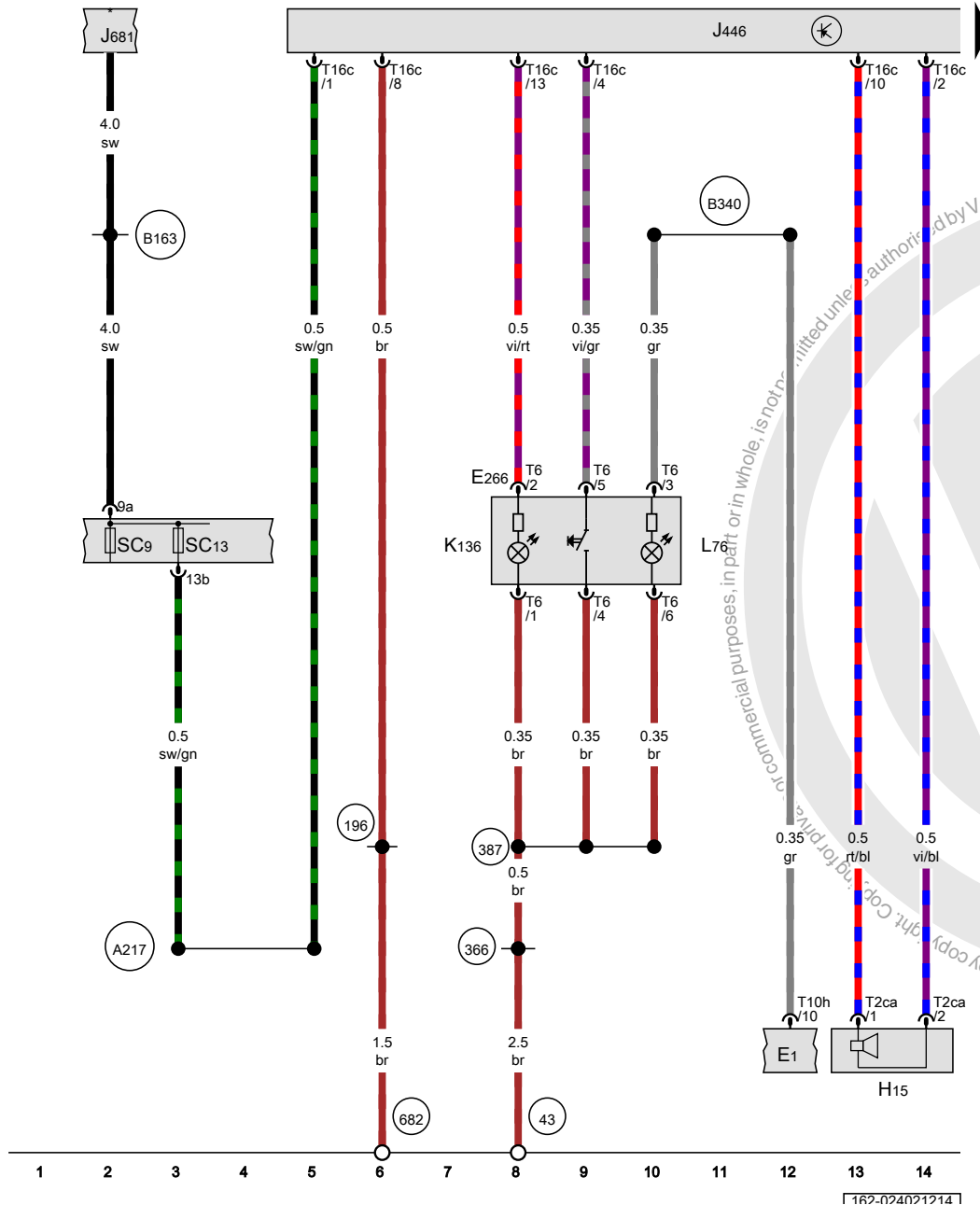
| | |
|------|--|
| F34 | Brake fluid level warning switch |
| G34 | Left front brake pad wear sensor |
| K | Instrument cluster |
| T2ap | Double connector |
| T2bb | Double connector |
| T32 | 32-pin connector |
| 132 | Ground connection 3 (in engine compartment wiring harness) |
| 376 | Ground connection 11 (in main wiring harness) |
| 655 | Ground connection on left headlamp |
| B379 | Brake wear indicator connection 1 (in main wiring harness) |
| B380 | Brake wear indicator connection 2 (in main wiring harness) |
| * | Depending on equipment |
| *2 | Only for vehicles with brake pad wear indicator |

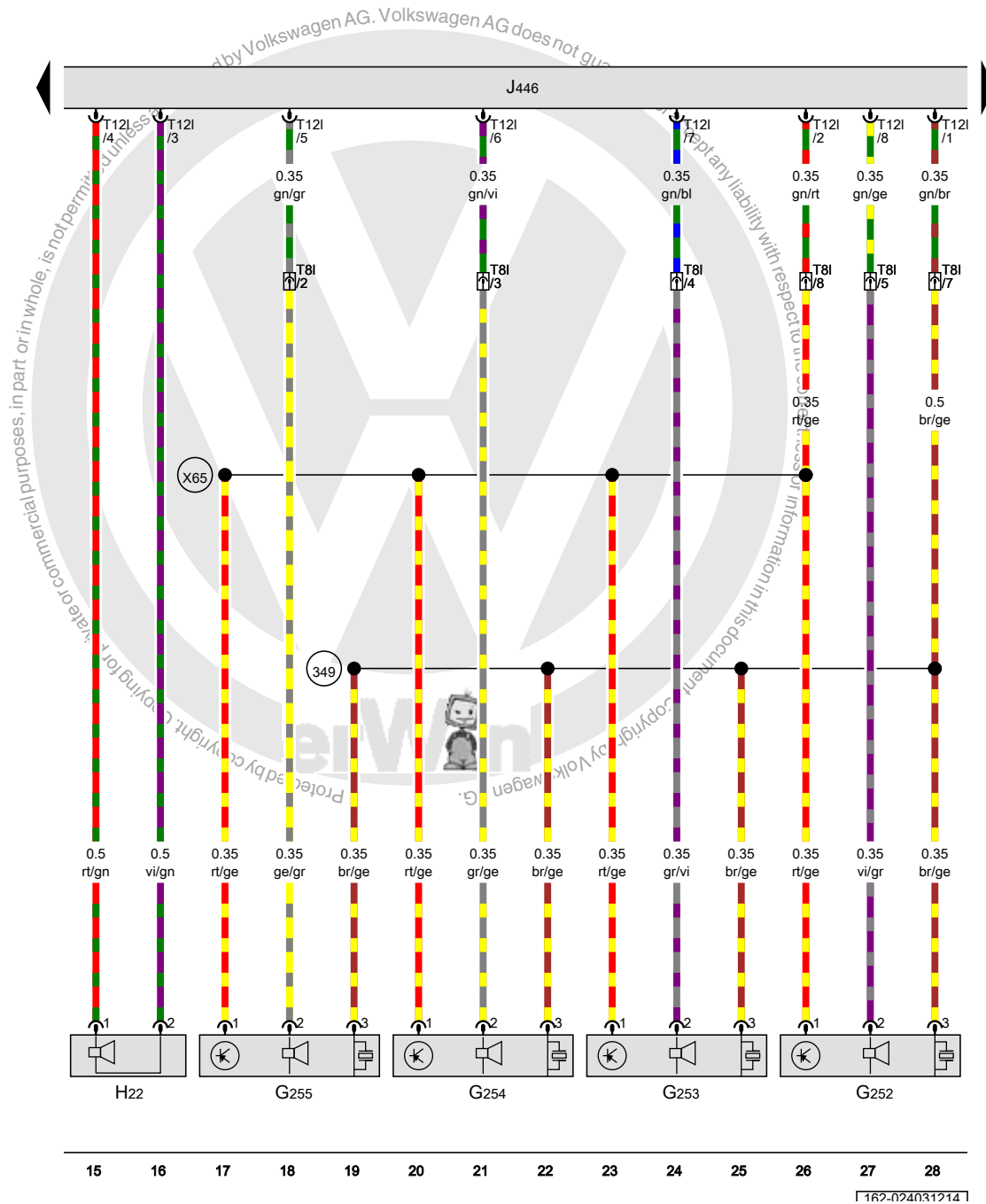
Parking aid, front and rear , (7X2)

from April 2010



Parking aid button, Rear parking aid warning buzzer, Parking aid control module, Terminal 15 power supply relay 2, Parking aid indicator lamp, Push button illumination bulb





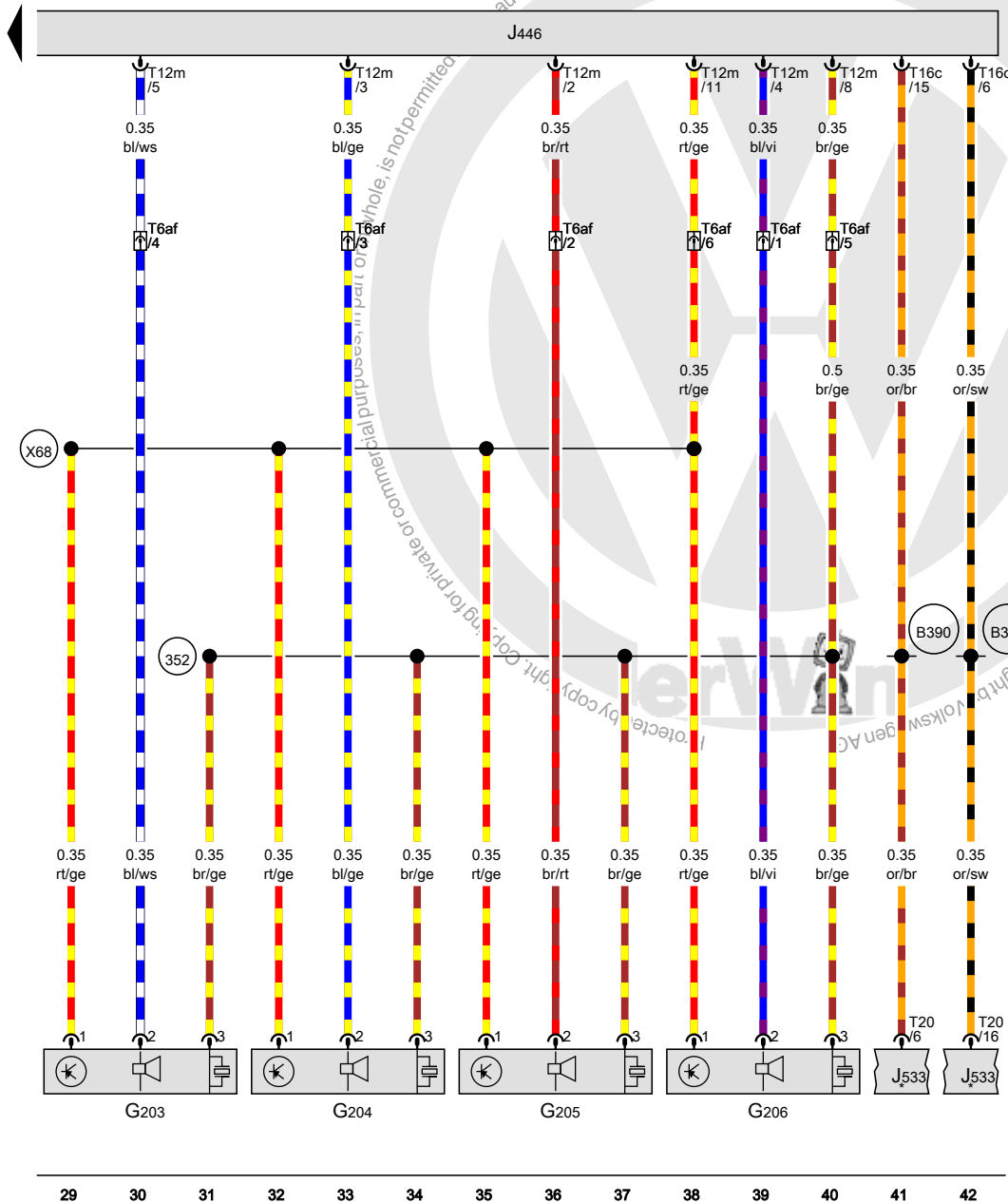
Right front parking aid sensor, Right front center parking aid sensor, Left front center parking aid sensor, Left front parking aid sensor, Front parking aid warning buzzer, Parking aid control module

- G252 Right front parking aid sensor
- G253 Right front center parking aid sensor
- G254 Left front center parking aid sensor
- G255 Left front parking aid sensor
- H22 Front parking aid warning buzzer
- J446 Parking aid control module
- T8I 8-pin connector
- T12I 12-pin connector

349 Horn ground connection (in front bumper wiring harness)

X65 Parking aid connection (in front bumper wiring harness)

- ws = white
- sw = black
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- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
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Left rear parking aid sensor, Left rear center parking aid sensor, Right rear center parking aid sensor, Right rear parking aid sensor, Parking aid control module

- | | |
|------|--|
| G203 | Left rear parking aid sensor |
| G204 | Left rear center parking aid sensor |
| G205 | Right rear center parking aid sensor |
| G206 | Right rear parking aid sensor |
| J446 | Parking aid control module |
| J533 | Data bus on board diagnostic interface |
| T6af | 6-pin connector |
| T12m | 12-pin connector |
| T16c | 16-pin connector |
| T20 | 20-pin connector |

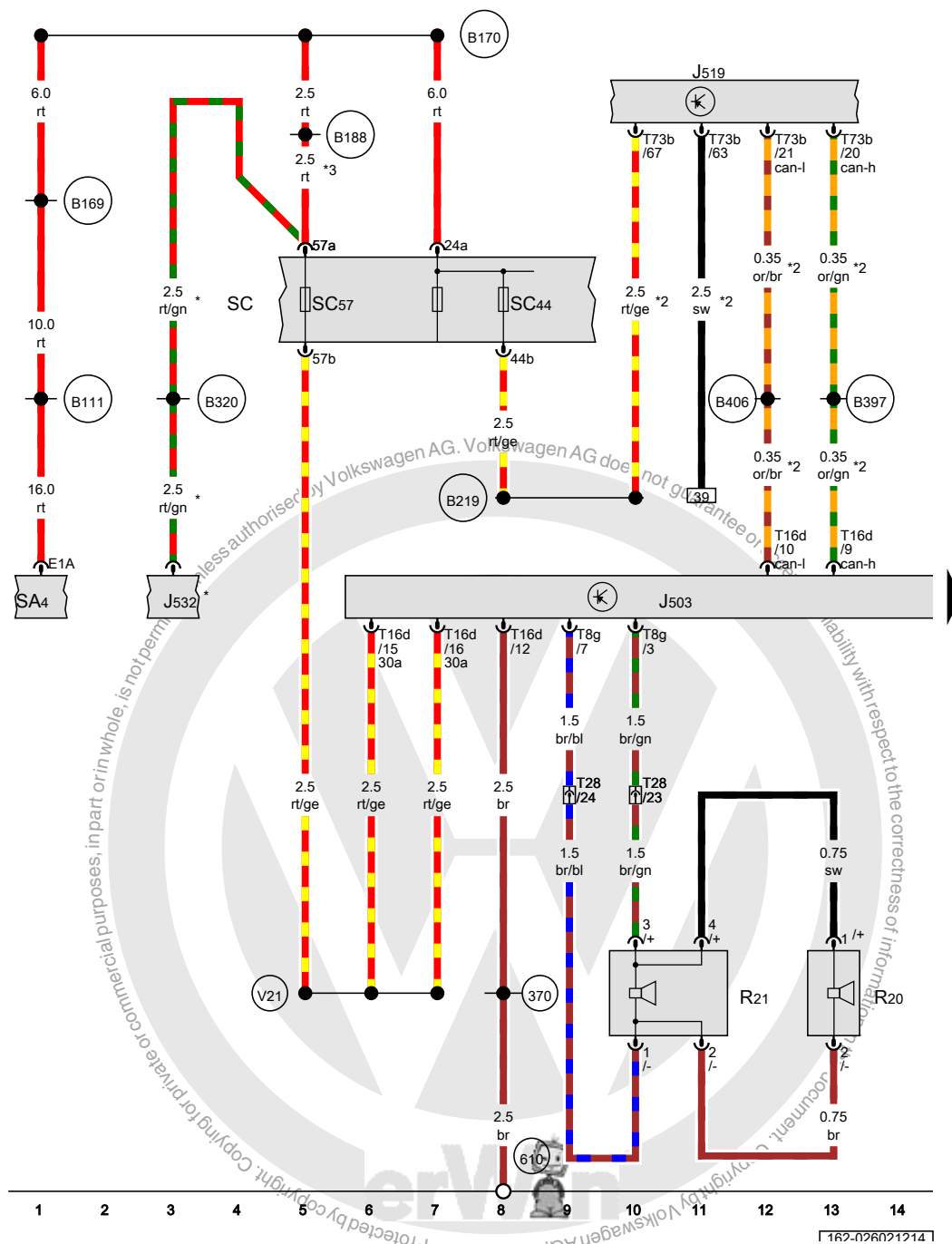
- | | |
|------|---|
| 352 | Parking aid ground connection (in rear bumper wiring harness) |
| B383 | Powertrain CAN bus high connection 1 (in main wiring harness) |
| B390 | Powertrain CAN bus low connection 1 (in main wiring harness) |
| X68 | Parking aid connection (in rear bumper wiring harness) |
| * | only for vehicles with High equipment (AW1) |

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

Radio navigation system RNS 315 , (7T8),(7UC),(7UK)

from May 2010

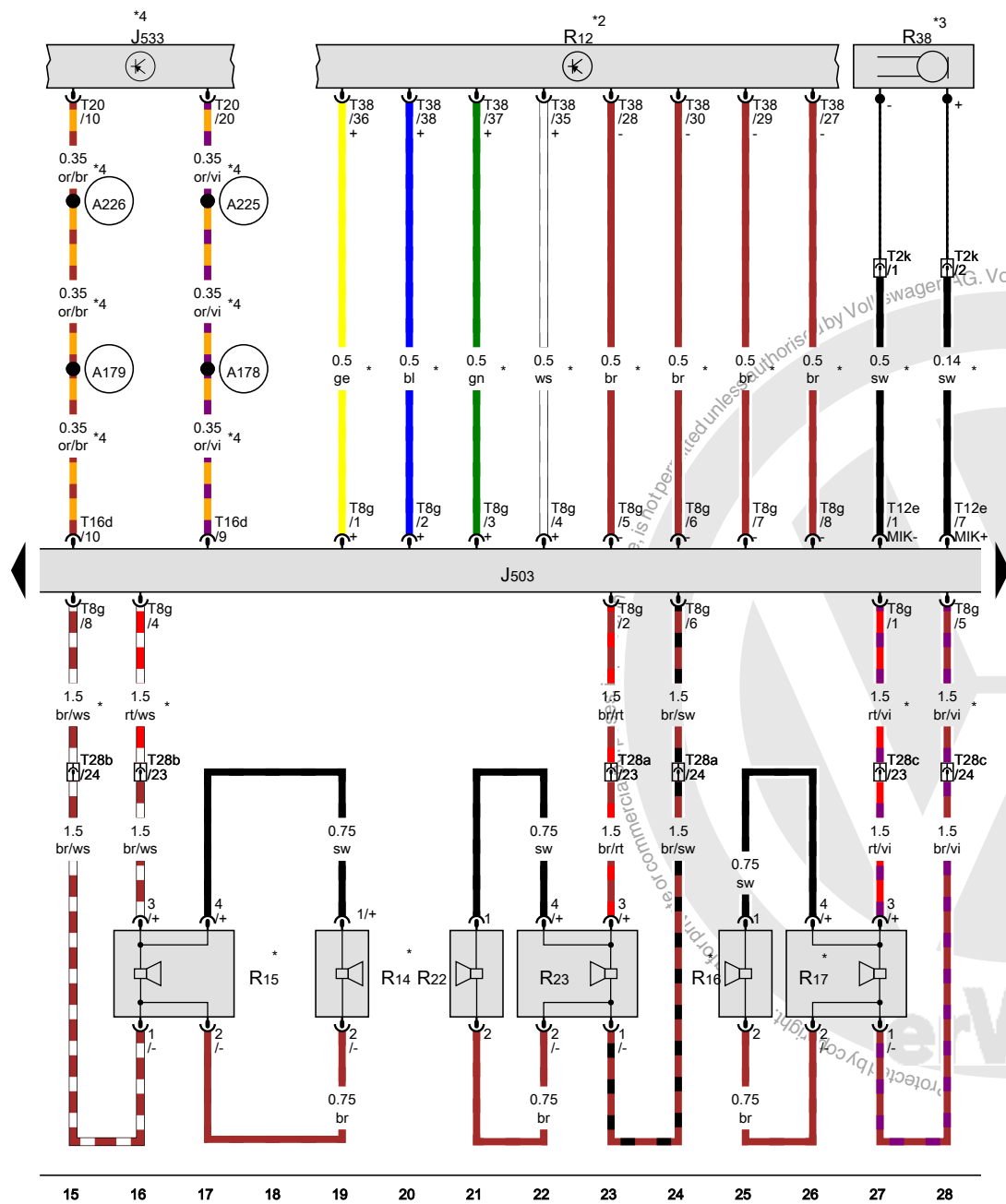




Radio/navigation display unit control module, Vehicle electrical control module system, Left front treble speaker, Left front bass speaker, Fuse 4 (on fuse panel A), Fuse panel C

- J503 Radio/navigation display unit control module
- J519 Vehicle electrical control module system
- J532 Voltage stabilizer
- R20 Left front treble speaker
- R21 Left front bass speaker
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC44 Fuse 44 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)
- T8g 8-pin connector
- T16d 16-pin connector
- T28 28-pin connector
- T73b 73-pin connector
- 370 Ground connection 5 (in main wiring harness)
- 610 Audio ground connection under front center console
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B188 Positive connection 5 (30) (in interior wiring harness)
- B219 Positive connection 4 (30a) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)
- * Only for vehicles with Stop/Start system
- *2 only for vehicles with Low equipment (AW0)
- *3 Only for vehicles without Start/Stop system

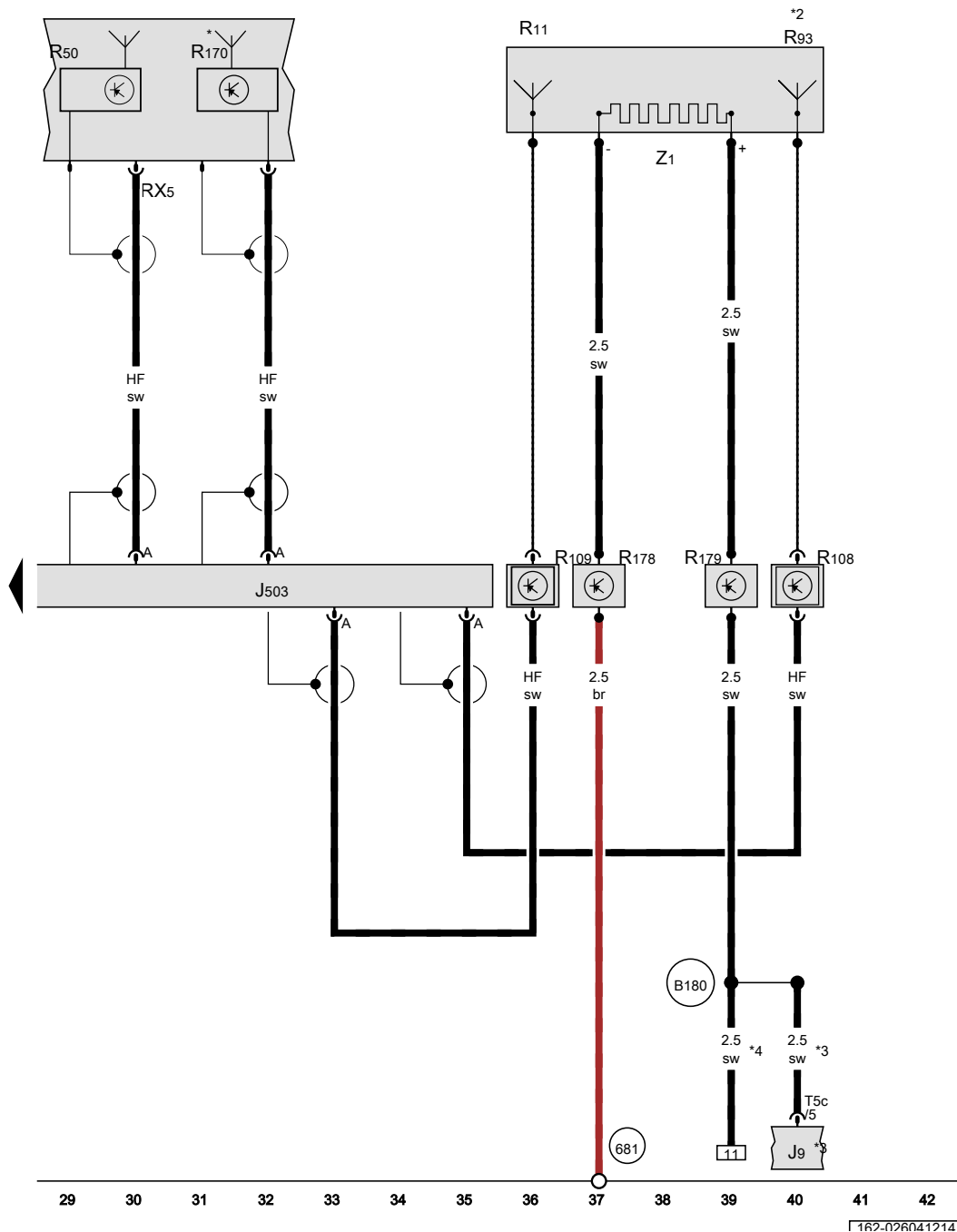
Radio/navigation display unit control module, Right front treble speaker, Right front bass speaker



- J503 Radio/navigation display unit control module
- J533 Data bus on board diagnostic interface
- R12 Amplifier
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- R38 Telephone microphone
- T2k Double connector
- T8g 8-pin connector
- T12e 12-pin connector
- T16d 16-pin connector
- T20 20-pin connector
- T28a 28-pin connector
- T28b 28-pin connector
- T28c 28-pin connector
- T38 38-pin connector

- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- * Depending on equipment
- *2 Refer to applicable sound system wiring diagram
- *3 Refer to applicable telephone systems wiring diagram
- *4 only for vehicles with High equipment (AW1)

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- sw = black
- ro = red
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- br = brown
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Radio/navigation display unit control module, Left antenna module, Right antenna module, Satellite antenna, Rear window defogger

- J9 Rear window defogger relay
- J503 Radio/navigation display unit control module
- RX5 Roof antenna
- R11 Antenna
- R50 GPS antenna
- R93 Radio antenna 2
- R108 Left antenna module
- R109 Right antenna module
- R170 Satellite antenna
- R178 FM frequency filter in negative wire
- R179 FM frequency filter in positive wire
- T5c 5-pin connector
- Z1 Rear window defogger
- 681 Ground connection 1 in right rear side panel
- B180 Rear window defogger connection (in interior wiring harness)
- * USA only
- *2 Depending on equipment
- *3 only for vehicles with High equipment (AW1)
- *4 only for vehicles with Low equipment (AW0)

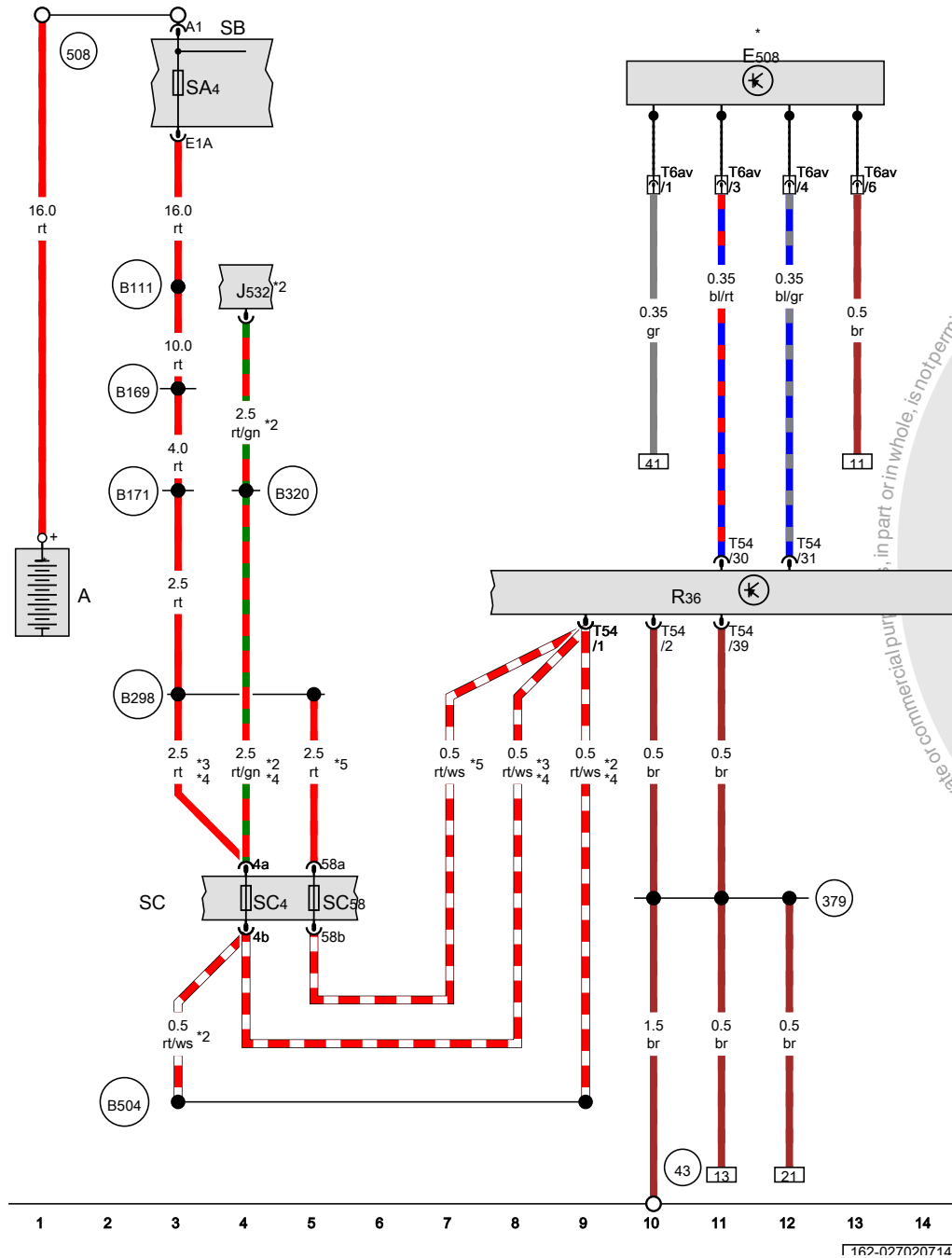
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Cell phone system

from April 2010



Cellular telephone preparation control head, Telephone transceiver, Fuse panel B, Fuse panel C



- A Battery
- E508 Cellular telephone preparation control head
- J532 Voltage stabilizer
- R36 Telephone transceiver
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SC Fuse panel C
- SC4 Fuse 4 (on fuse panel C)
- SC58 Fuse 58 (on fuse panel C)
- T6av 6-pin connector
- T54 54-pin connector
- 43 Ground connection on A-pillar, lower right
- 379 Ground connection 14 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- B298 Positive connection 2 (30) (in main wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- B504 Positive connection 8 (30a) (in interior wiring harness)
- * Component not contained in cell phone prep
- *2 Only for vehicles with Stop/Start system
- *3 Only for vehicles without Start/Stop system
- *4 from November 2010
- *5 Through October 2010

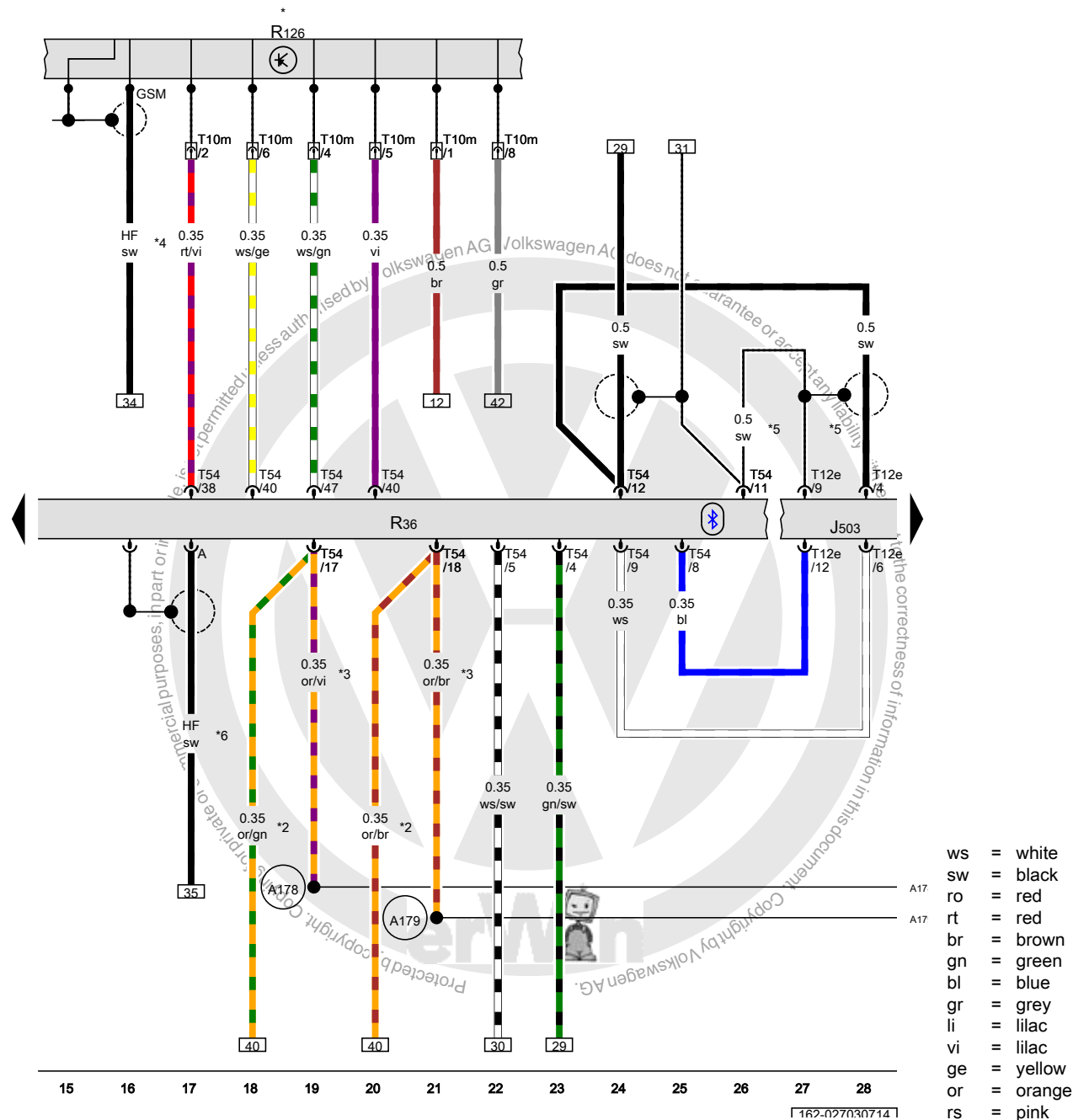
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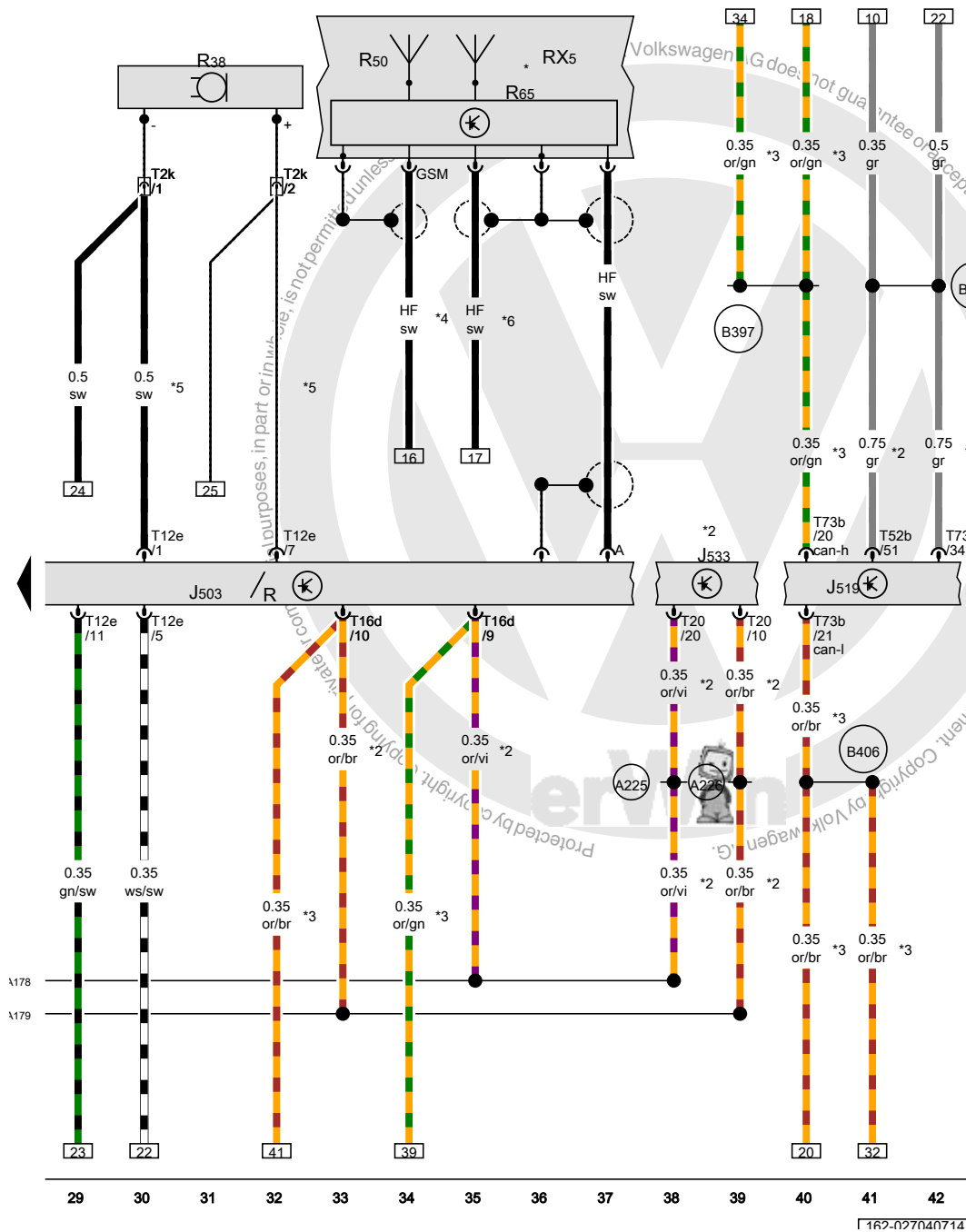
Radio/navigation display unit control module, Telephone transceiver

- J503 Radio/navigation display unit control module
- R36 Telephone transceiver
- R126 Telephone baseplate
- T10m 10-pin connector
- T12e 12-pin connector
- T54 54-pin connector

- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)

- * Depending on equipment
- *2 only for vehicles with Low equipment (AW0)
- *3 only for vehicles with High equipment (AW1)
- *4 Only for vehicles with telephone charging station
- *5 Only with radio navigation system and voice recognition system
- *6 Only for vehicles with telephone charging station and cell phone operating electronics control module





Radio/navigation display unit control module, Vehicle electrical system control module, Data bus on board diagnostic interface, Radio, Roof antenna, Telephone microphone, GPS antenna, Telephone antenna

- J503 Radio/navigation display unit control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- R Radio
- RX5 Roof antenna
- R38 Telephone microphone
- R50 GPS antenna
- R65 Telephone antenna
- T2k Double connector, near the front interior lamp
- T12e 12-pin connector
- T16d 16-pin connector
- T20 20-pin connector
- T52b 52-pin connector
- T73b 73-pin connector
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- * Depending on equipment
- *2 only for vehicles with High equipment (AW1)
- *3 only for vehicles with Low equipment (AW0)
- *4 Only for vehicles with telephone charging station
- *5 Only with radio navigation system and voice recognition system
- *6 Only for vehicles with telephone charging station and cell phone operating electronics control module

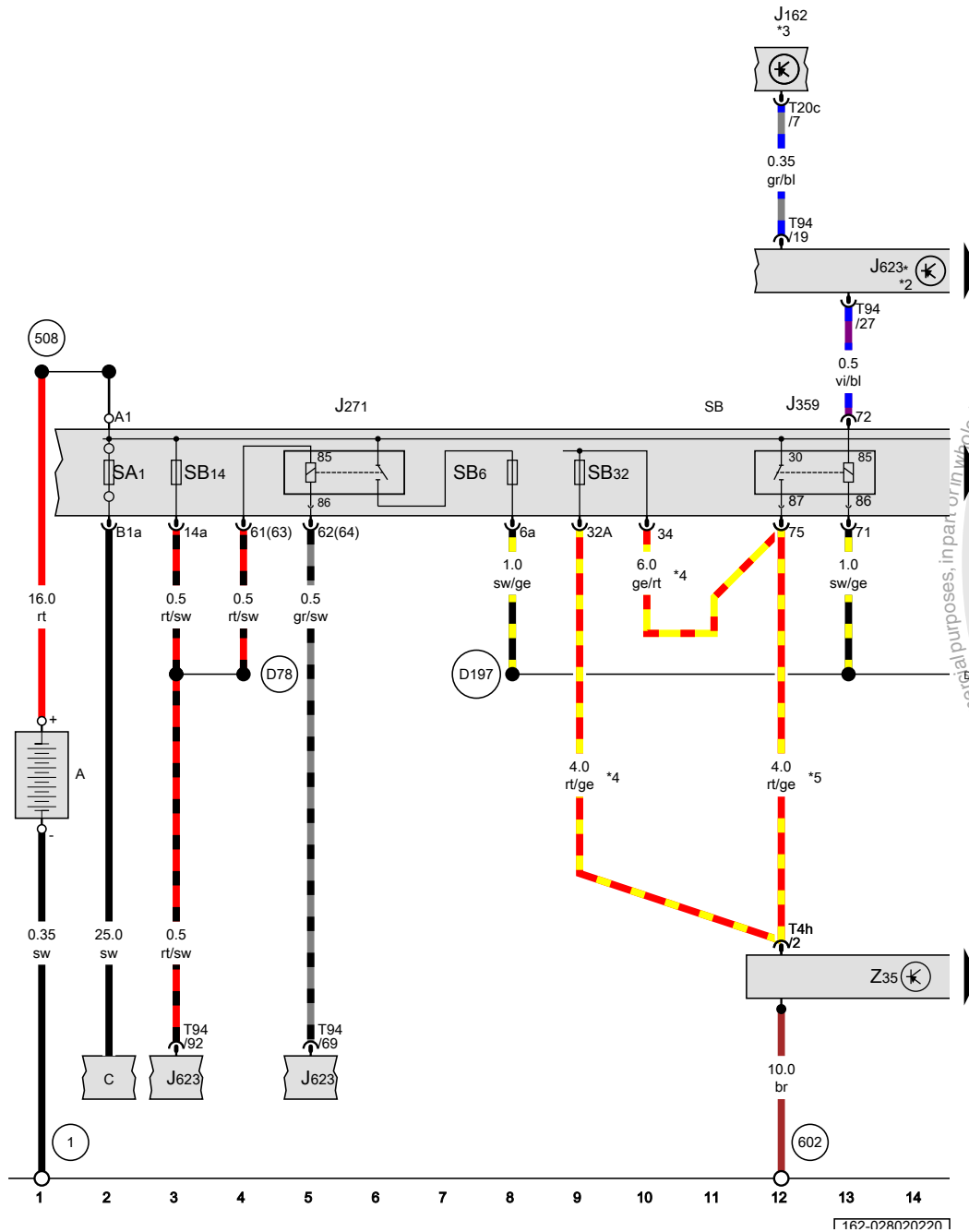
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Auxiliary Air Heater (PTC) , CAVA,CAVD,CAXA,CAYC,CBZA,CBZB,CFFB,CJAA,CLCA,CTHA,CTHD,(7E6)

From April 2010



Motronic Engine Control Module Power Supply Relay, Low Heat Output Relay, Auxiliary Heater Heating Element



- A Battery
 - C Generator
 - J162 Heater Control Module
 - J271 Motronic Engine Control Module Power Supply Relay
 - J359 Low Heat Output Relay
 - J623 Engine/Motor Control Module
 - SA1 Fuse 1 (On Fuse Panel A)
 - SB Fuse Panel B
 - SB6 Fuse 6 (On Fuse Panel B)
 - SB14 Fuse 14 (On Fuse Panel B)
 - SB32 Fuse 32 (On Fuse Panel B)
 - T4h 4-Pin Connector
 - T20c 20-Pin Connector
 - T94 94-Pin Connector
 - Z35 Auxiliary Heater Heating Element
- 1 Ground Cable, Battery to Body
 - 508 Terminal 30 Threaded Connection (On E-Box)
 - 602 Ground Connection in Left Front Footwell
 - D78 Positive Connection 1 (30a) (in Engine/Motor Compartment Wiring Harness)
 - D197 Connection 5 (87A) (in Engine/Motor Compartment Wiring Harness)
 - * Refer to Applicable Engine Wiring Diagram For Vehicles with Diesel Engine
 - *2 Refer to the Applicable Wiring Diagram for Heating with Manual Control
 - *4 Running Change
 - *5 Omitted as a Running Change

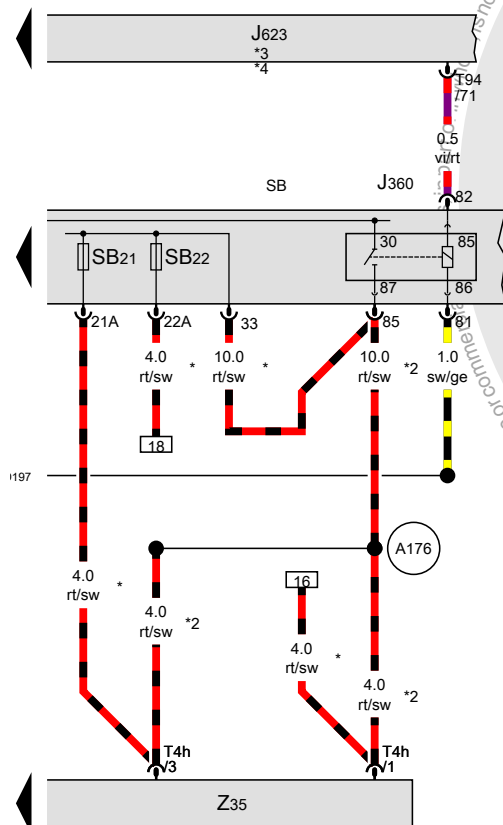
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High Heat Output Relay, Auxiliary Heater Heating Element

- J360 High Heat Output Relay
- J623 Engine/Motor Control Module
- SB Fuse Panel B
- SB21 Fuse 21 (On Fuse Panel B)
- SB22 Fuse 22 (On Fuse Panel B)
- T4h 4-Pin Connector
- T94 94-Pin Connector
- Z35 Auxiliary Heater Heating Element

- A176 Auxiliary Heater Connection (in Instrument Panel Wiring Harness)
- D197 Connection 5 (87A) (in Engine/Motor Compartment Wiring Harness)

- * Running Change
- *2 Omitted as a Running Change
- *3 Refer to Applicable Engine Wiring Diagram
- *4 For Vehicles with Diesel Engine

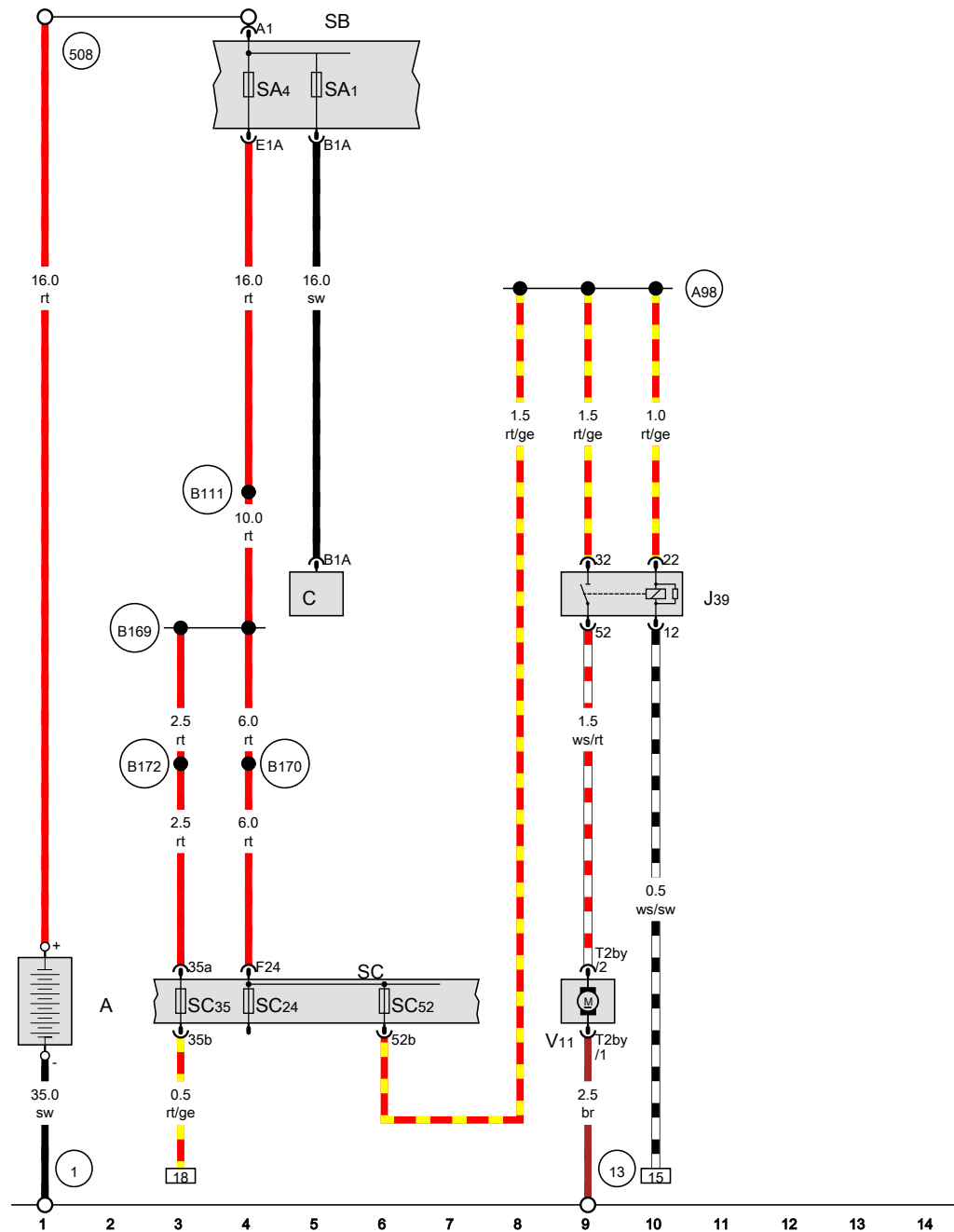


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Washer system, headlamps , (8X1)

from April 2010





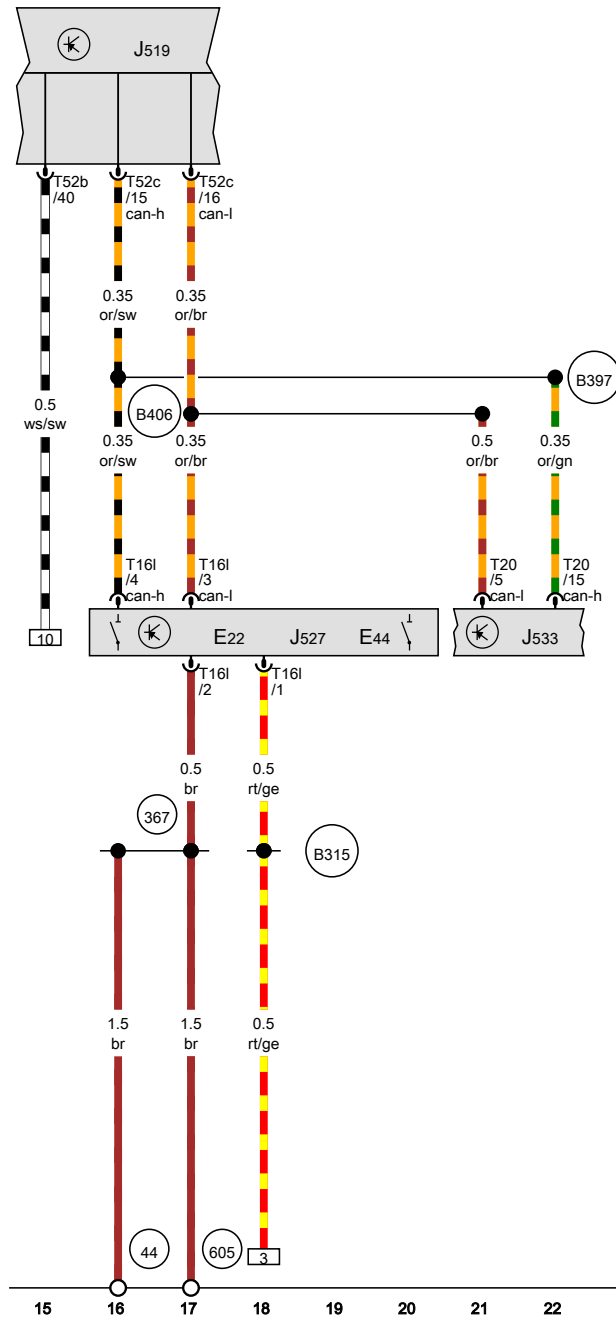
Headlamp washer relay, Headlamp washer pump

- A Battery
- C Generator
- J39 Headlamp washer relay
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SC Fuse panel C
- SC24 Fuse 24 (on fuse panel C)
- SC35 Fuse 35 (on fuse panel C)
- SC52 Fuse 52 (on fuse panel C)
- T2by Double connector
- V11 Headlamp washer pump

- 1 Ground strap, battery to body
- 13 Ground connection in engine compartment, right
- 508 Terminal 30 threaded connection (on E-box)
- A98 Positive connection 4 (30) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)

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162-029021214



Windshield wiper intermittent mode switch, Windshield and headlamp washer pump switch, Vehicle electrical control module system, Steering column electronics control module, Data bus on board diagnostic interface

- E22 Windshield wiper intermittent mode switch
- E44 Windshield and headlamp washer pump switch
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- J533 Data bus on board diagnostic interface
- T16l 16-pin connector
- T20 20-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 605 Ground connection on upper steering column
- B315 Positive connection 1 (30a) (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

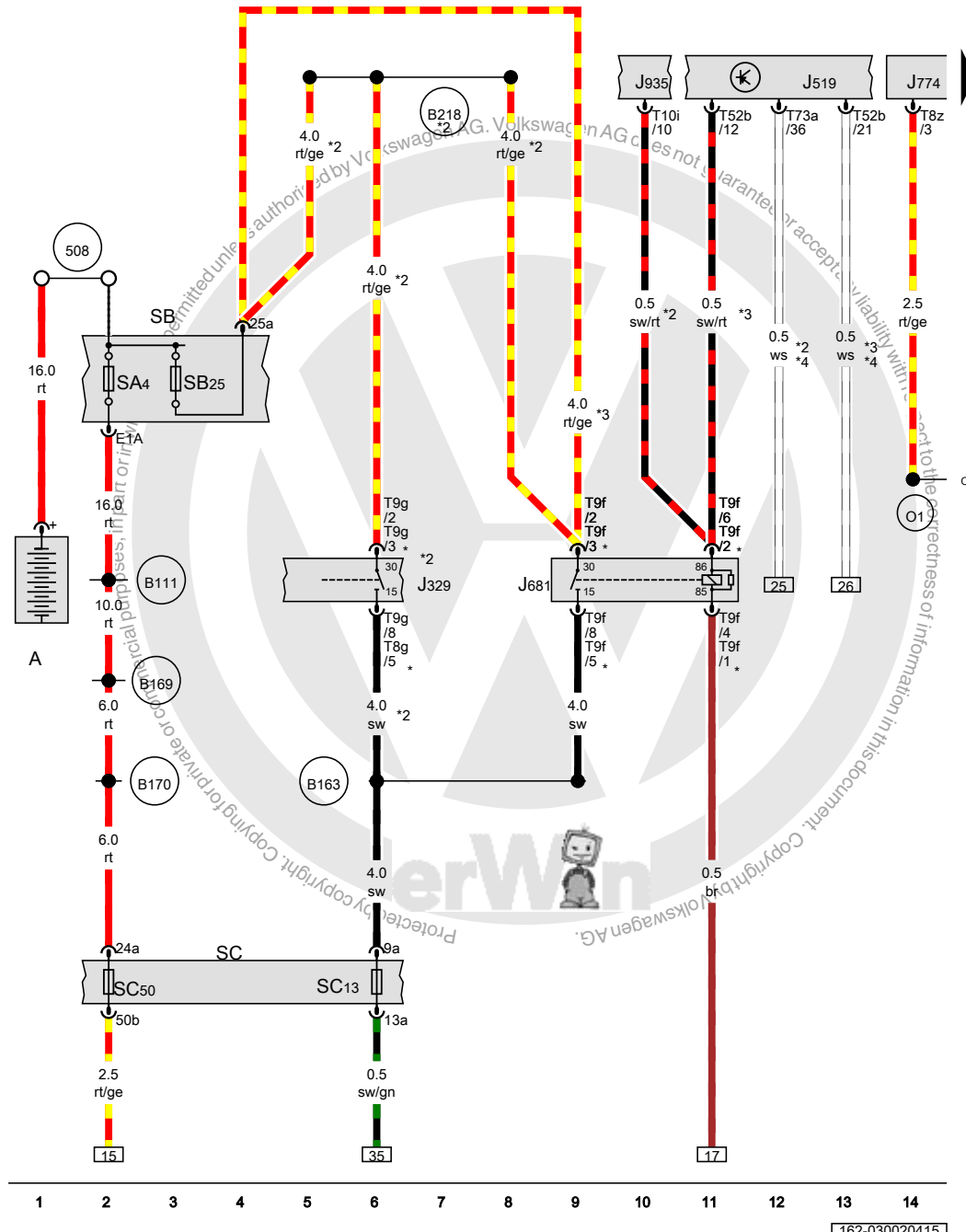
- ws = white
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- rs = pink

Seats, heated , (4A3)

from April 2010



Vehicle electrical control module system, Front seat heating control module, Fuse panel B, Fuse panel C

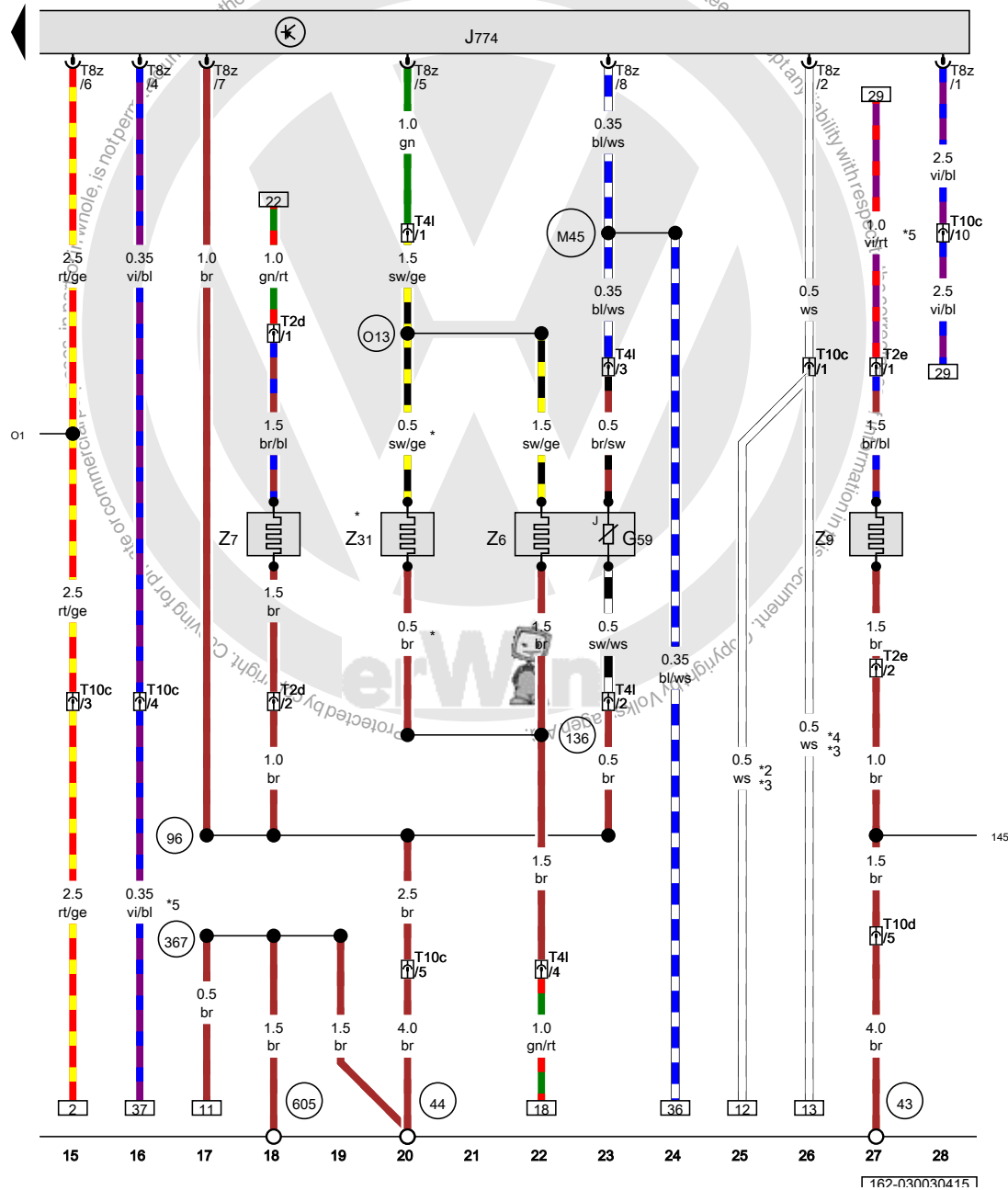


- A Battery
- J329 Terminal 15 power supply relay
- J519 Vehicle electrical control module system
- J681 Terminal 15 power supply relay 2
- J774 Front seat heating control module
- J935 Converter box
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SB25 Fuse 25 (on fuse panel B)
- SC Fuse panel C
- SC13 Fuse 13 (on fuse panel C)
- SC50 Fuse 50 (on fuse panel C)
- T8z 8-pin connector
- T9f 9-pin connector
- T9g 9-pin connector
- T10i 10-pin connector
- T52b 52-pin connector
- T73a 73-pin connector

- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B218 Positive connection 6 (30) (in interior wiring harness)
- O1 Positive connection (30) (in heated seats wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
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- bl = blue
- gr = grey
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- or = orange
- rs = pink

- * Running change
- *2 only for vehicles with Low equipment (AW0)
- *3 only for vehicles with High equipment (AW1)
- *4 Diameter depends on equipment



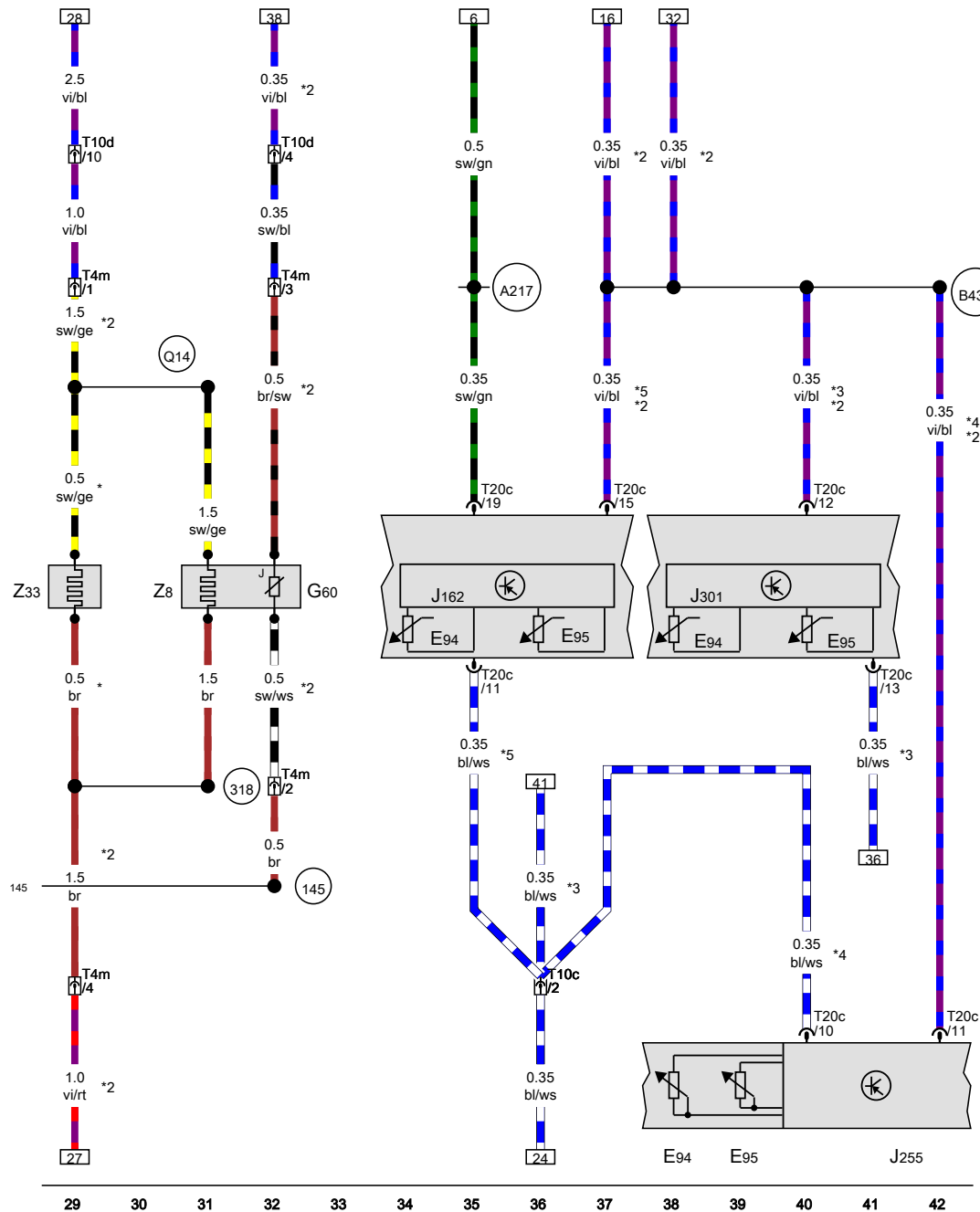
Heated driver seat temperature sensor, Front seat heating control module, Driver backrest heating element, Front passenger backrest heating element

- G59 Heated driver seat temperature sensor
- J774 Front seat heating control module
- T2d Double connector
- T2e Double connector
- T4l 4-pin connector
- T8z 8-pin connector
- T10c 10-pin connector, under the driver seat
- T10d 10-pin connector, under the front passenger seat
- Z6 Driver seat heating element
- Z7 Driver backrest heating element
- Z9 Front passenger backrest heating element
- Z31 Driver seat bolster heater

- 43 Ground connection on A-pillar, lower right
- 44 Ground connection on A-pillar, lower left
- 96 Ground connection 1 (in heated seats wiring harness)
- 136 Ground connection 2 (in heated seats wiring harness)
- 145 Ground connection 3 (in heated seats wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 605 Ground connection on upper steering column
- M45 Connection 5 (in driver seat wiring harness)
- O1 Positive connection (30) (in heated seats wiring harness)
- O13 Connection 2 (in heated seats wiring harness)

- * Omitted as a running change
- *2 only for vehicles with Low equipment (AW0)
- *3 Diameter depends on equipment
- *4 only for vehicles with High equipment (AW1)
- *5 The color of the wires depends on vehicle equipment

ws = white
 sw = black
 rt = red
 gn = green
 bl = blue
 gr = grey
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Heated driver seat adjuster, Heated front passenger seat adjuster, Front passenger heated seat temperature sensor

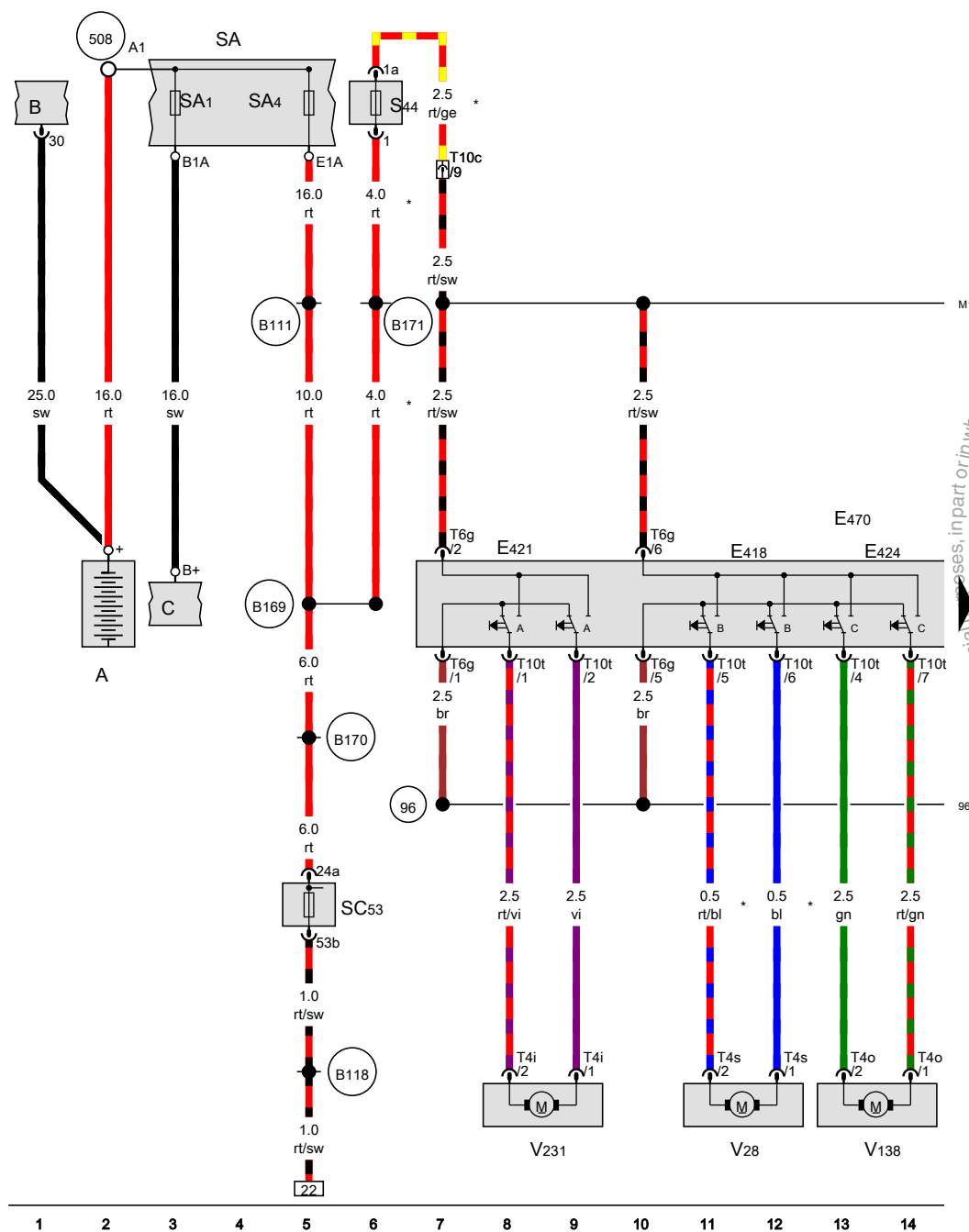
- E94 Heated driver seat adjuster
- E95 Heated front passenger seat adjuster
- G60 Front passenger heated seat temperature sensor
- J162 Heater control module
- J255 Climatronic control module
- J301 A/C control module
- T4m 4-pin connector
- T10c 10-pin connector, under the driver seat
- T10d 10-pin connector, under the front passenger seat
- T20c 20-pin connector
- Z8 Front passenger seat heating element
- Z33 Front passenger seat bolster heater
- 145 Ground connection 3 (in heated seats wiring harness)
- 318 Ground connection 4 (in heated seats wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B431 Seat heating connection (in main wiring harness)
- Q14 Lock-out switch connection (in power window/central locking system and door contact switch wiring harness)
- * Omitted as a running change
- *2 The color of the wires depends on vehicle equipment
- *3 Only for vehicles with Climatic
- *4 Only for vehicles with Climatronic
- *5 Only for vehicles without an A/C system

ws = white
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 ro = red
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Seat adjustment without memory function , (3PB),(3PZ)

from April 2010

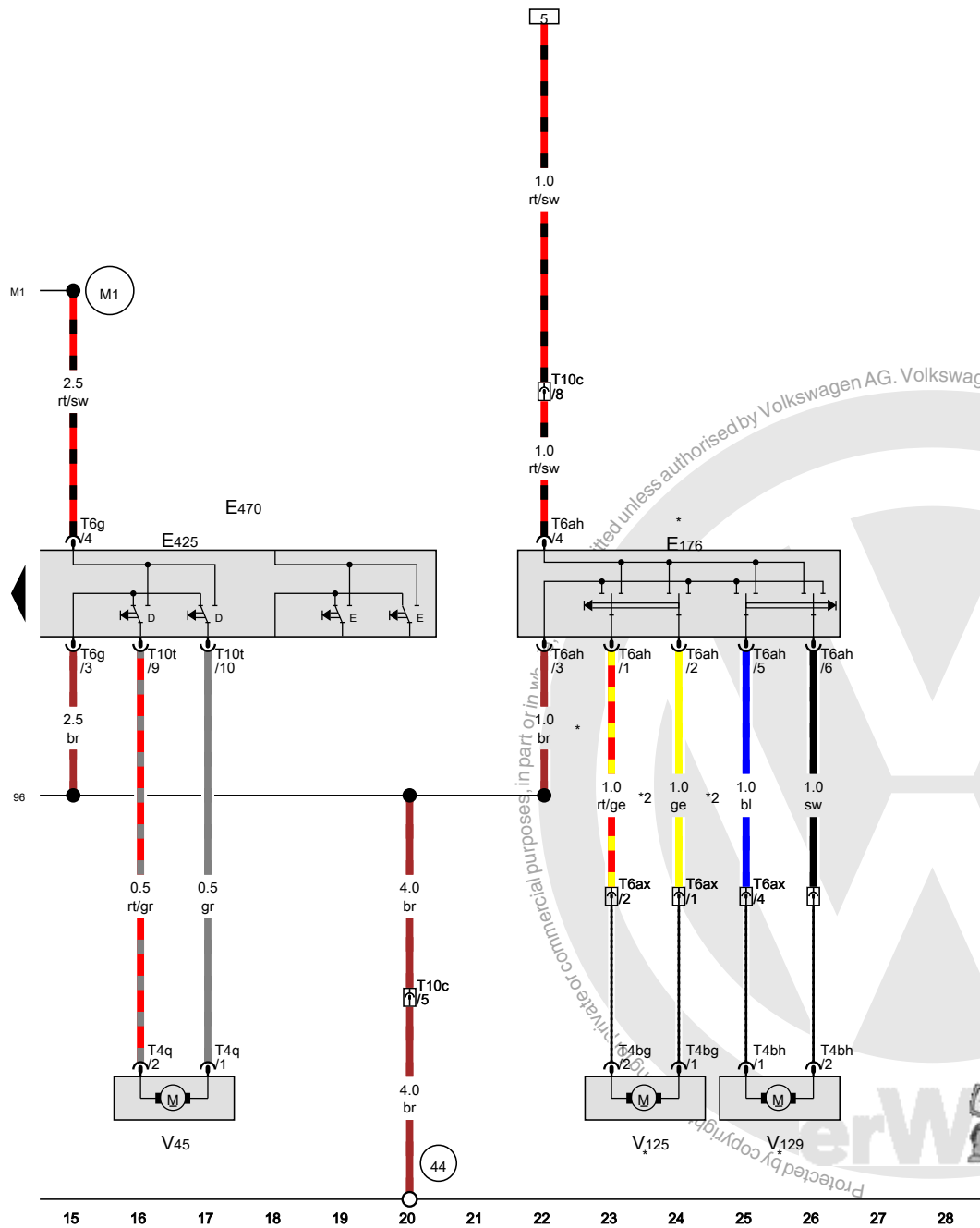




Battery, Starter, Generator, Seat forward/back adjustment button, Seat height adjustment button, Driver seat adjustment control head, Fuse panel A, Fuse 53 (on fuse panel C), Driver seat forward/back adjustment motor, Driver seat height adjustment motor, Seat angle adjustment motor

- A Battery
- B Starter
- C Generator
- E418 Seat forward/back adjustment button
- E421 Angle adjustment button
- E424 Seat height adjustment button
- E470 Driver seat adjustment control head
- SA Fuse panel A
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- S44 Driver power seat adjustment circuit breaker 1
- SC53 Fuse 53 (on fuse panel C)
- T4i 4-pin connector
- T4o 4-pin connector
- T4s 4-pin connector
- T6g 6-pin connector
- T10c 10-pin connector, under the driver seat
- T10t 10-pin connector
- V28 Driver seat forward/back adjustment motor
- V138 Driver seat height adjustment motor
- V231 Seat angle adjustment motor
- 96 Ground connection 1 (in heated seats wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B118 Driver seat adjustment connection (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- M1 Positive connection 1 (30) (in seat adjustment wiring harness)
- * The color of the wires depends on vehicle equipment

162-031020415



Driver seat lumbar support adjustment switch, Backrest adjustment button, Driver seat adjustment control head, Driver backrest adjustment motor, Driver seat lumbar support curvature adjustment motor, Driver seat lumbar support height adjustment motor

- E176 Driver seat lumbar support adjustment switch
- E425 Backrest adjustment button
- E470 Driver seat adjustment control head
- T4bg 4-pin connector
- T4bh 4-pin connector
- T4n 4-pin connector
- T4q 4-pin connector
- T6ah 6-pin connector
- T6ax 6-pin connector
- T6g 6-pin connector
- T10c 10-pin connector, under the driver seat
- T10t 10-pin connector
- V45 Driver backrest adjustment motor
- V125 Driver seat lumbar support curvature adjustment motor
- V129 Driver seat lumbar support height adjustment motor

- 44 Ground connection on A-pillar, lower left
- 96 Ground connection 1 (in heated seats wiring harness)
- M1 Positive connection 1 (30) (in seat adjustment wiring harness)
- * Depending on equipment
- *2 The color of the wires depends on vehicle equipment

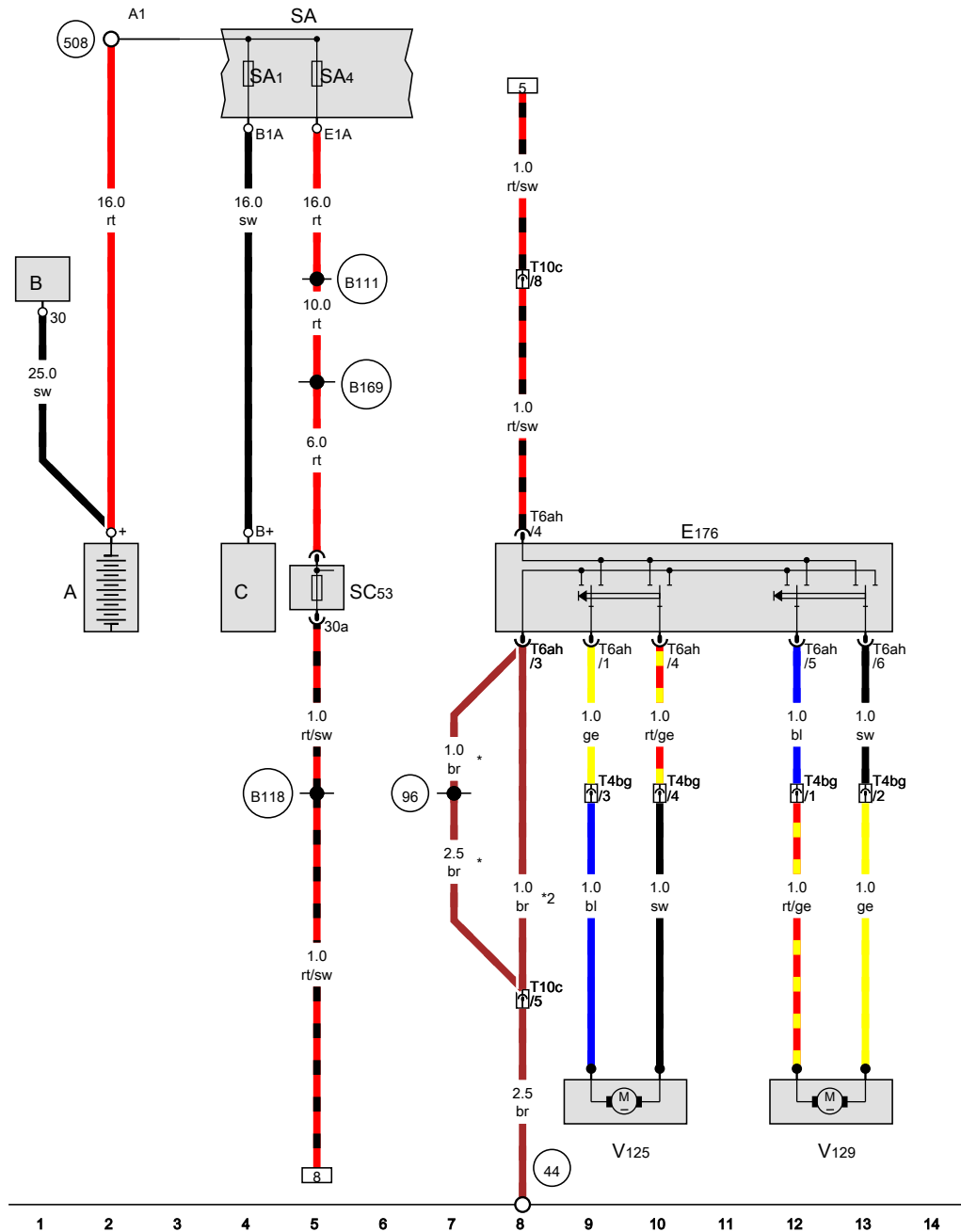
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Seat lumbar adjustment , (7P7)

from April 2010



Driver seat lumbar support adjustment switch, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A), Fuse 53 (on fuse panel C), Driver seat lumbar support curvature adjustment motor, Driver seat lumbar support height adjustment motor



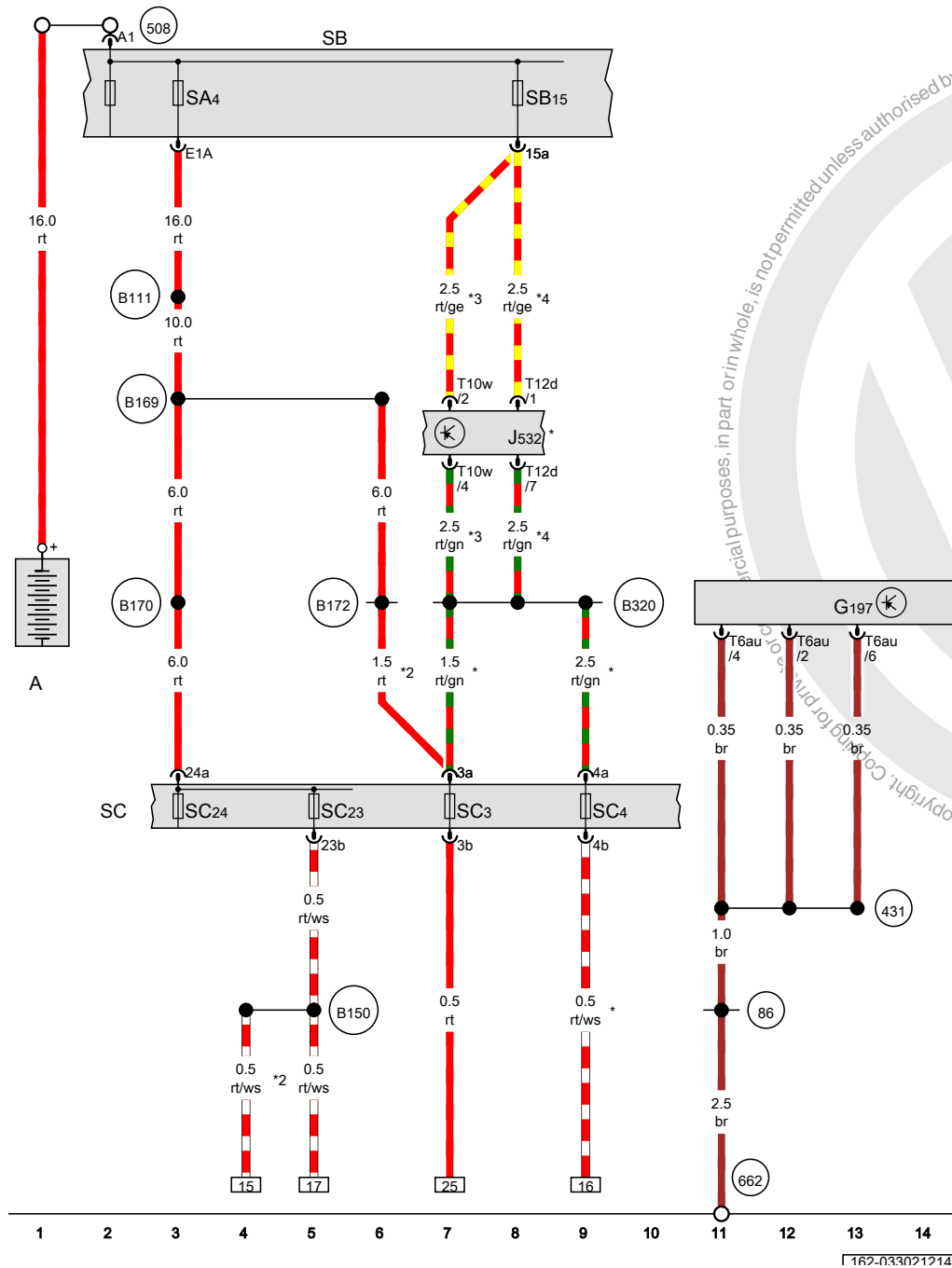
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- A Battery
- B Starter
- C Generator
- E176 Driver seat lumbar support adjustment switch
- SA Fuse panel A
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SC53 Fuse 53 (on fuse panel C)
- T4bg 4-pin connector, in the driver seat backrest
- T6ah 6-pin connector
- T10c 10-pin connector, under the driver seat
- V125 Driver seat lumbar support curvature adjustment motor
- V129 Driver seat lumbar support height adjustment motor
- 44 Ground connection on A-pillar, lower left
- 96 Ground connection 1 (in heated seats wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B118 Driver seat adjustment connection (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- * Only for vehicles with an auxiliary heater
- *2 Only for vehicles without heated seats

Compass , (QR1)
from April 2010



Battery, Compass magnetic field sensor, Voltage stabilizer, Fuse panel B, Fuse panel C



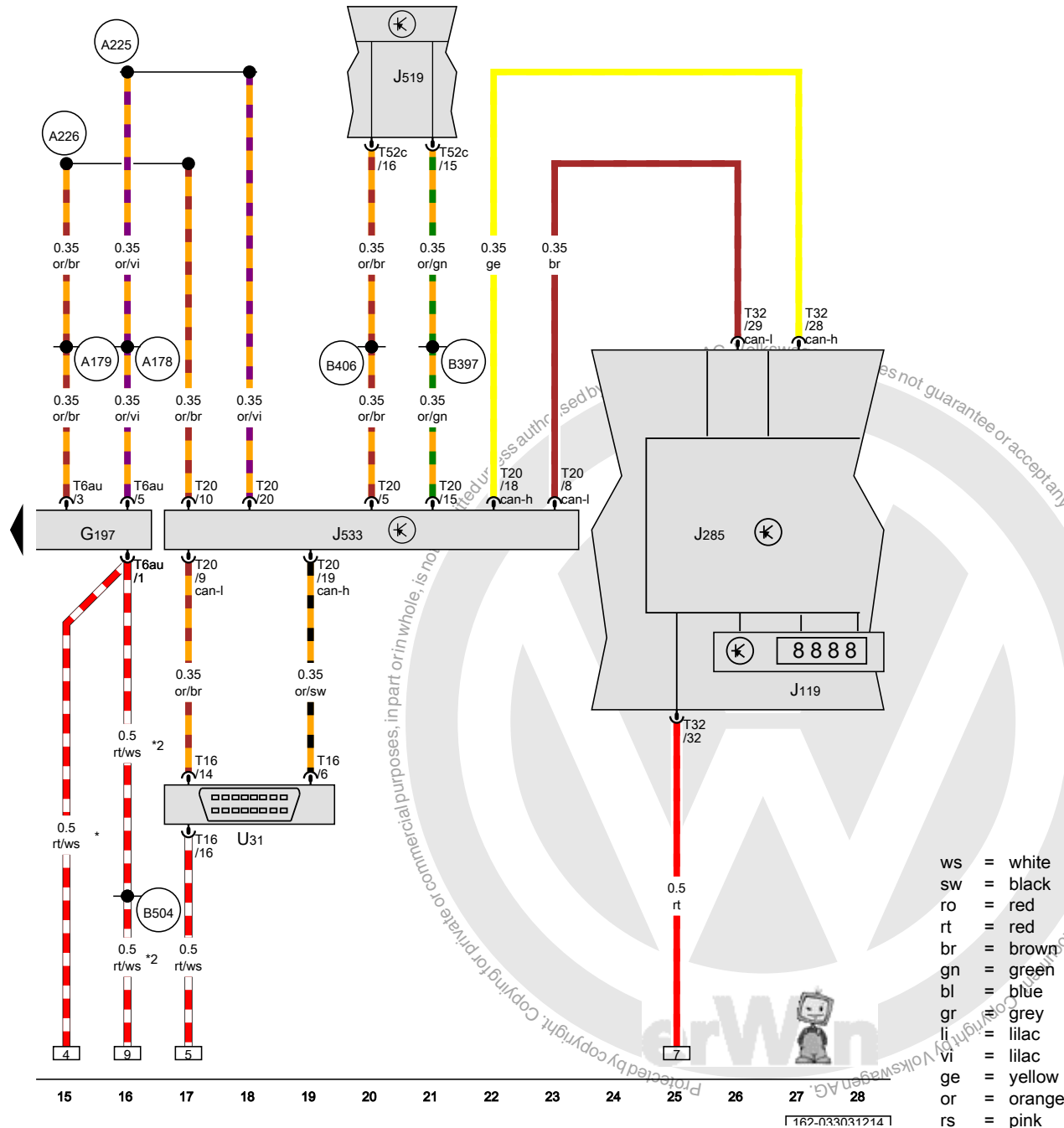
- A Battery
- G197 Compass magnetic field sensor
- J532 Voltage stabilizer
- SB Fuse panel B
- SC3 Fuse 3 (on fuse panel C)
- SC4 Fuse 4 (on fuse panel C)
- SA4 Fuse 4 (on fuse panel A)
- SB15 Fuse 15 (on fuse panel B)
- SC Fuse panel C
- SC23 Fuse 23 (on fuse panel C)
- SC24 Fuse 24 (on fuse panel C)
- T6au 6-pin connector
- T10w 10-pin connector
- T12d 12-pin connector

- 86 Ground connection 1 (in rear wiring harness)
- 431 Ground connection 2 (in roof wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 662 Ground connection in left rear side panel
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B150 Positive connection 2 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)

- * Only for vehicles with Stop/Start system
- *2 Only for vehicles without Start/Stop system
- *3 Omitted as a running change
- *4 Running change

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

162-033021214



Compass magnetic field sensor, Multifunction indicator, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

- G197 Compass magnetic field sensor
- J119 Multifunction indicator
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- T6au 6-pin connector
- T16 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection

- (A178) Infotainment CAN bus high connection (in instrument panel wiring harness)
- (A179) Infotainment CAN bus low connection (in instrument panel wiring harness)
- (A225) Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- (A226) Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- (B397) Comfort system CAN bus high connection 1 (in main wiring harness)
- (B406) Comfort system CAN bus low connection 1 (in main wiring harness)
- (B504) Positive connection 8 (30a) (in interior wiring harness)

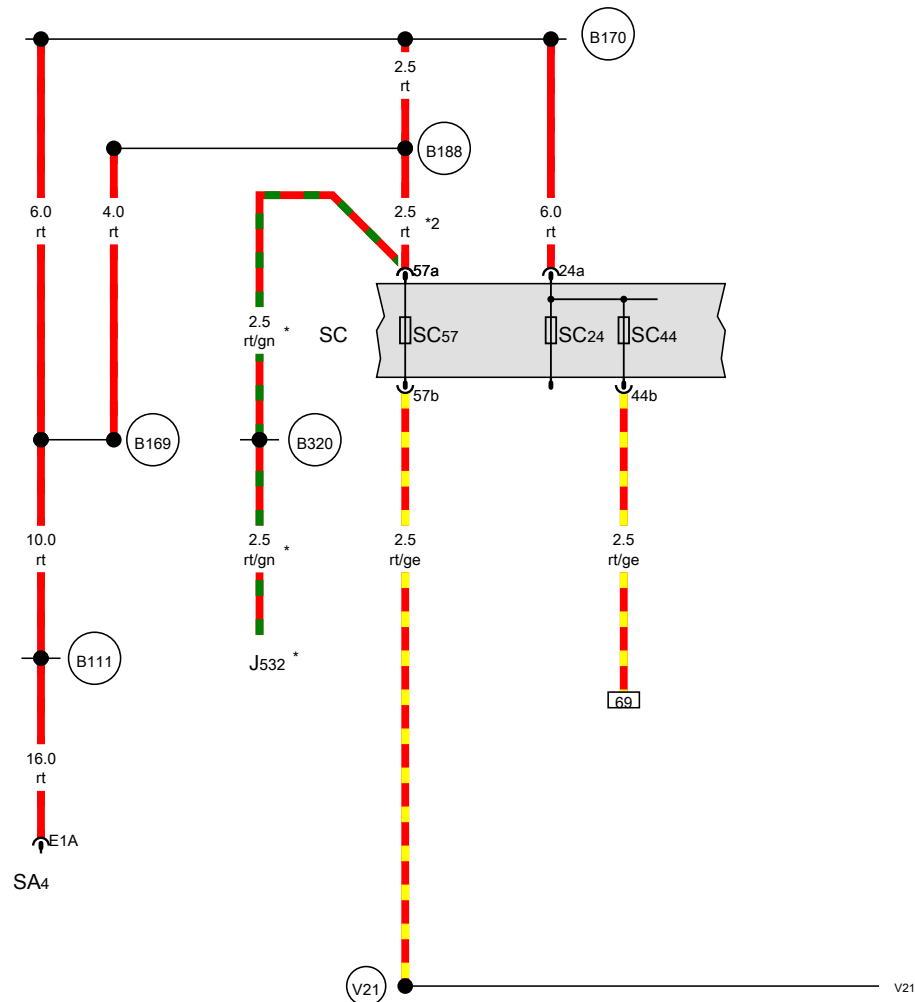
- * Only for vehicles without Start/Stop system
- *2 Only for vehicles with Stop/Start system

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Radio system RCD 310 , (8AE),(8AH),(8AP)

from April 2010

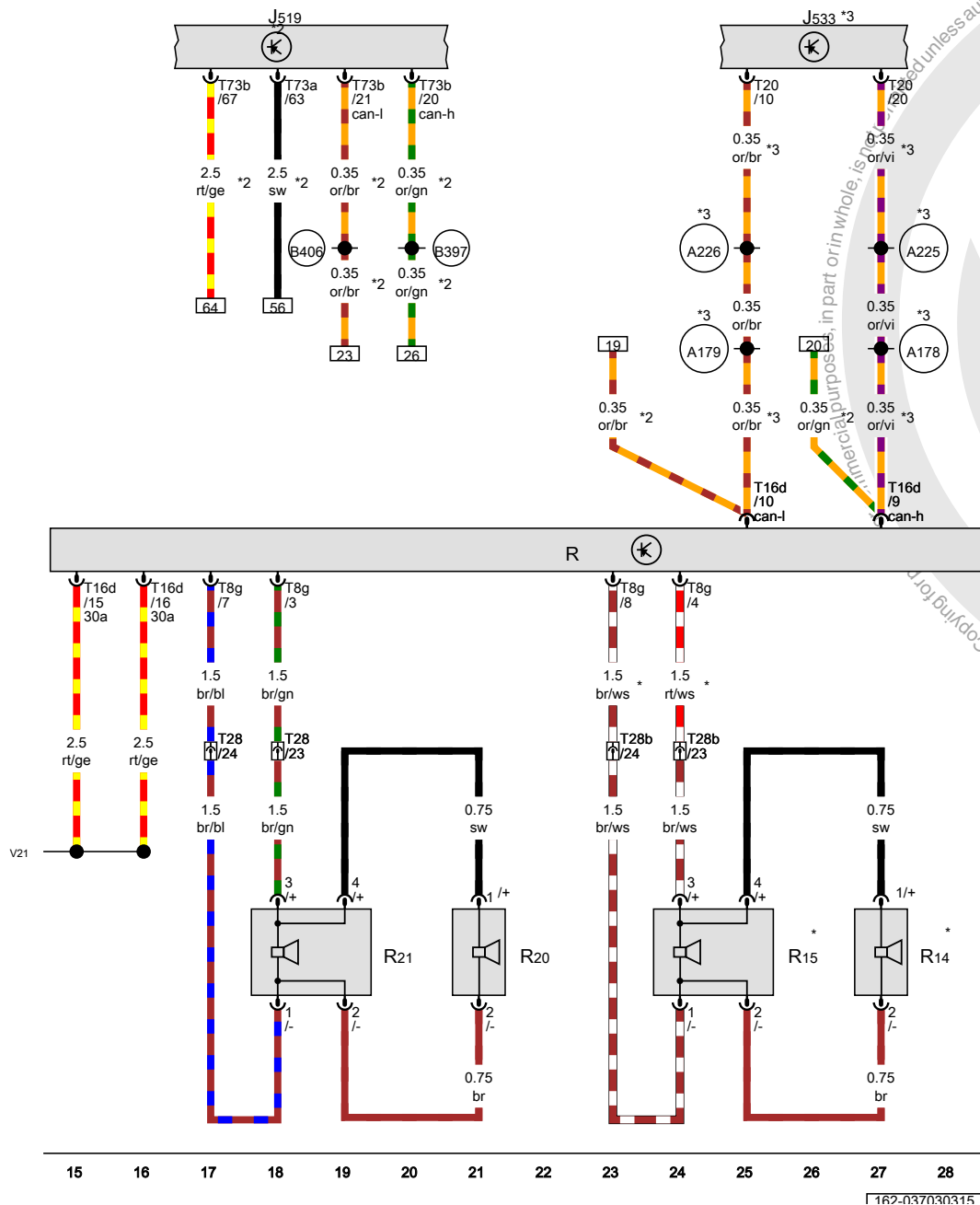




Fuse 4 (on fuse panel A), Fuse panel C

- J532 Voltage stabilizer
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC24 Fuse 24 (on fuse panel C)
- SC44 Fuse 44 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B188 Positive connection 5 (30) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)
- * Only for vehicles with Stop/Start system
- *2 Only for vehicles without Start/Stop system

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
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 gr = grey
 li = lilac
 vi = lilac
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 or = orange
 rs = pink

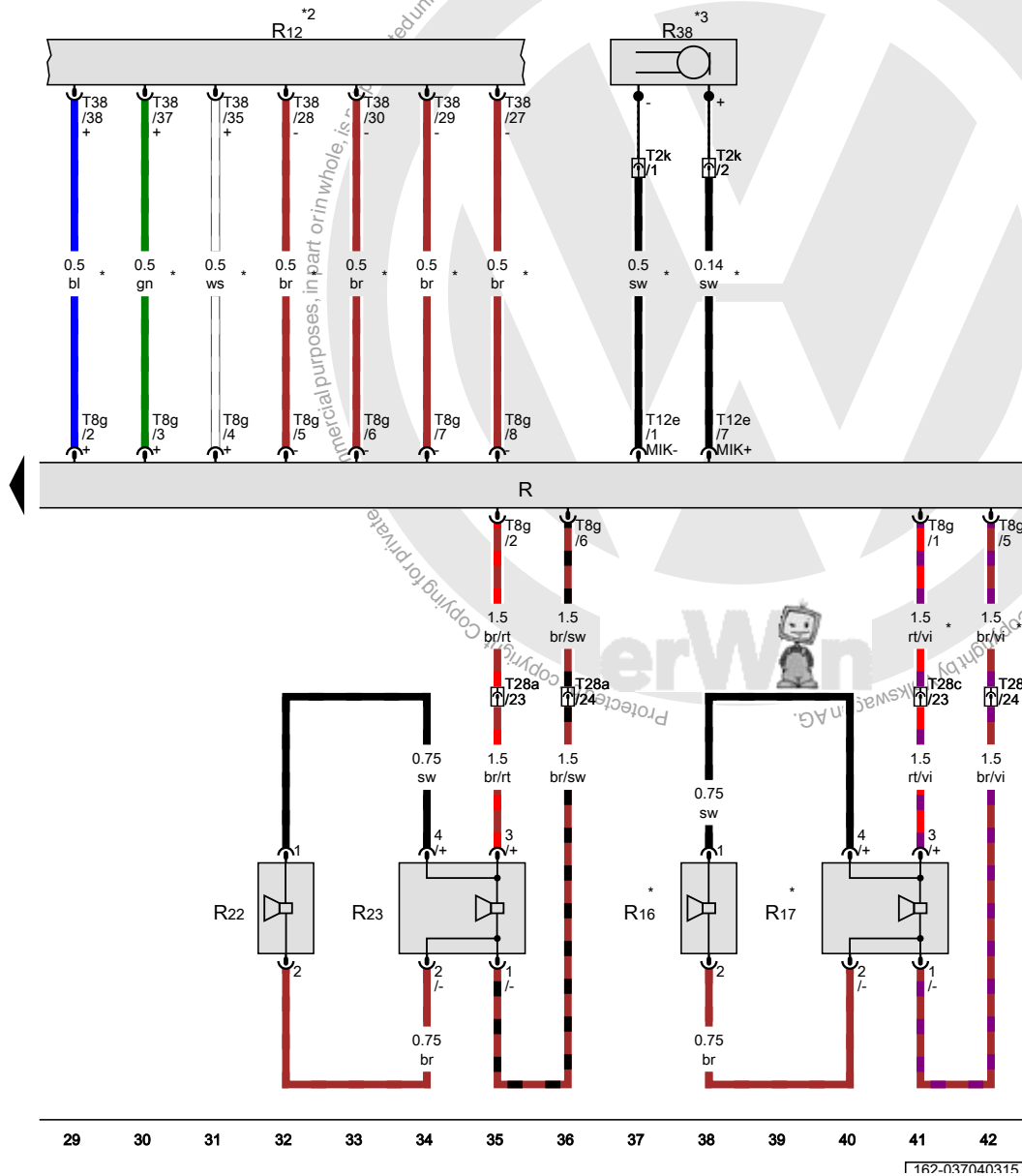


Vehicle electrical control module system, Data bus on board diagnostic interface, Radio, Left front treble speaker, Left front bass speaker

- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- R Radio
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R20 Left front treble speaker
- R21 Left front bass speaker
- T8g 8-pin connector
- T16d 16-pin connector
- T20 20-pin connector
- T28 28-pin connector
- T28b 28-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)

Radio, Right front treble speaker, Right front bass speaker

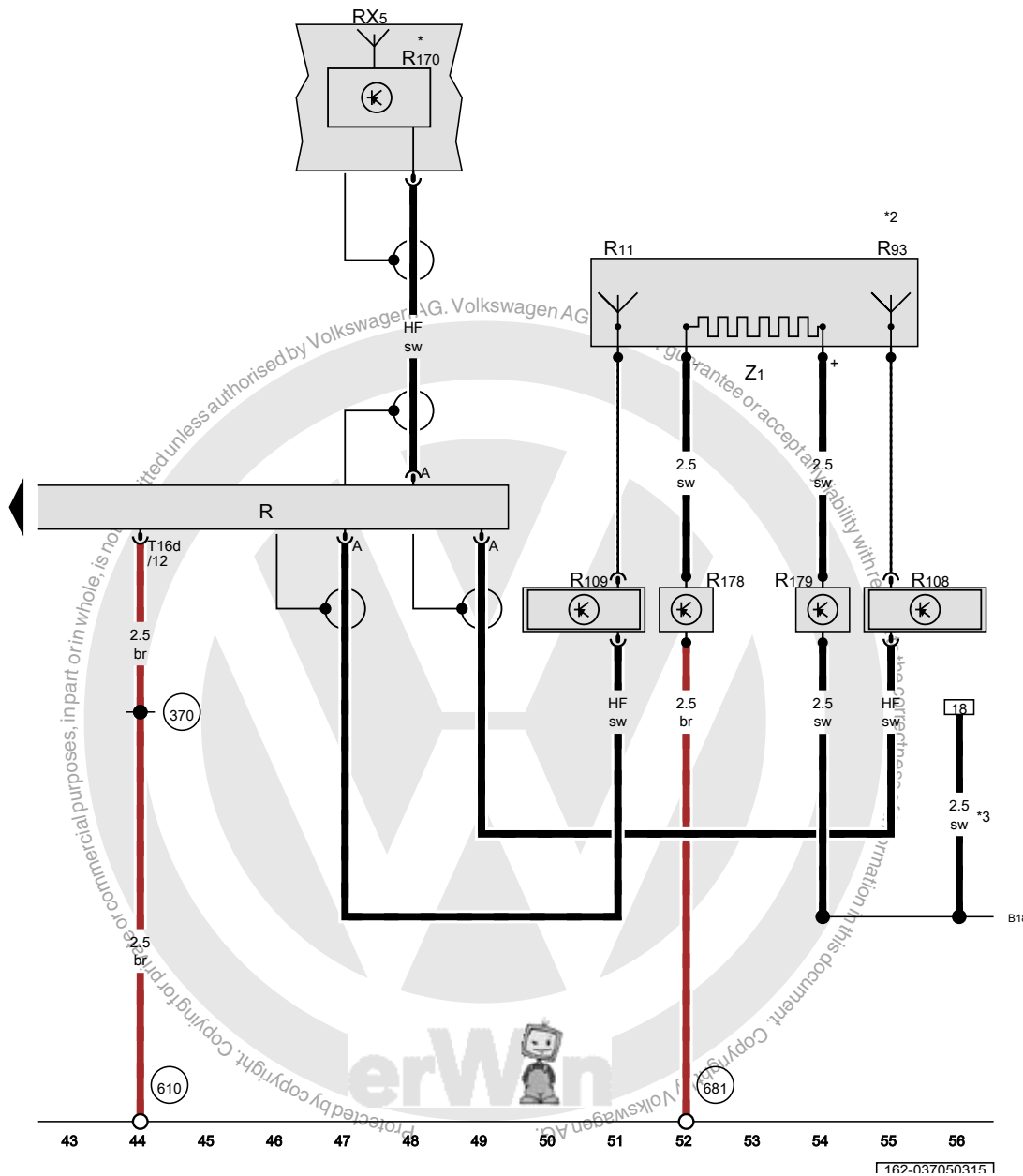
- R Radio
- R12 Amplifier
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- R38 Telephone microphone
- T2k Double connector
- T8g 8-pin connector
- T12e 12-pin connector
- T28a 28-pin connector
- T28c 28-pin connector
- T38 38-pin connector
- * Depending on equipment
- *2 Refer to applicable sound system wiring diagram
- *3 Refer to applicable telephone systems wiring diagram



162-037040315

Radio, Left antenna module, Right antenna module, Satellite antenna, Rear window defogger

- R Radio
- RX5 Roof antenna
- R11 Antenna
- R93 Radio antenna 2
- R108 Left antenna module
- R109 Right antenna module
- R170 Satellite antenna
- R178 FM frequency filter in negative wire
- R179 FM frequency filter in positive wire
- T16d 16-pin connector
- Z1 Rear window defogger
- 370 Ground connection 5 (in main wiring harness)
- 610 Audio ground connection under front center console
- 681 Ground connection 1 in right rear side panel
- B180 Rear window defogger connection (in interior wiring harness)
- * USA only
- *2 Depending on equipment
- *3 only for vehicles with Low equipment (AW0)





162-037060315

| | |
|------|--|
| J9 | Rear window defogger relay |
| J519 | Vehicle electrical control module system |
| T5c | 5-pin connector |
| T52b | 52-pin connector |
| B180 | Rear window defogger connection (in interior wiring harness) |
| B219 | Positive connection 4 (30a) (in interior wiring harness) |
| * | only for vehicles with High equipment (AW1) |
| *2 | only for vehicles with Low equipment (AW0) |

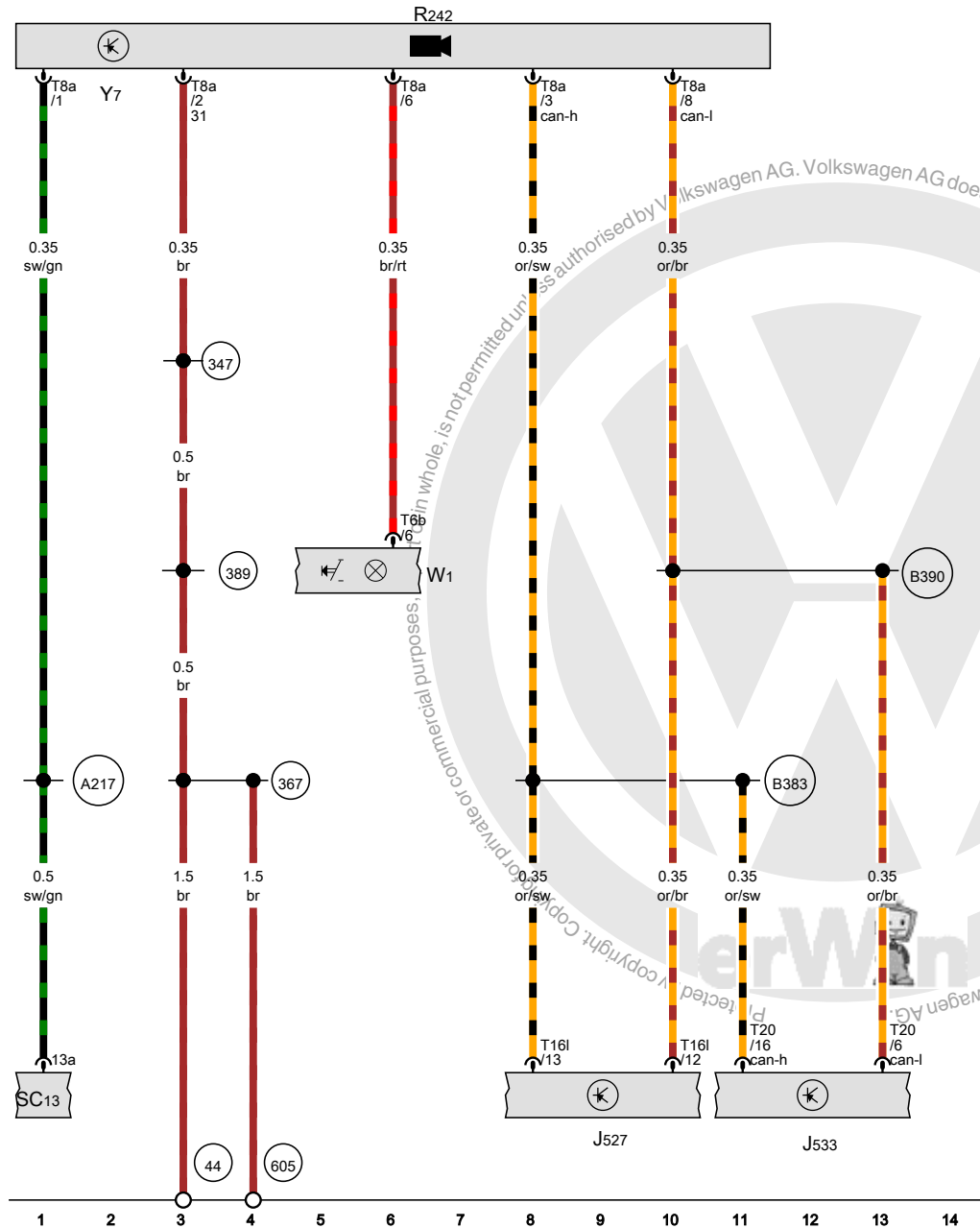


Rearview mirror without humidity sensor and with high beam assist , (8G1)

from April 2010



Steering column electronics control module, Data bus on board diagnostic interface, Fuse 13 (on fuse panel C), Front interior lamp, Automatic dimming interior rearview mirror

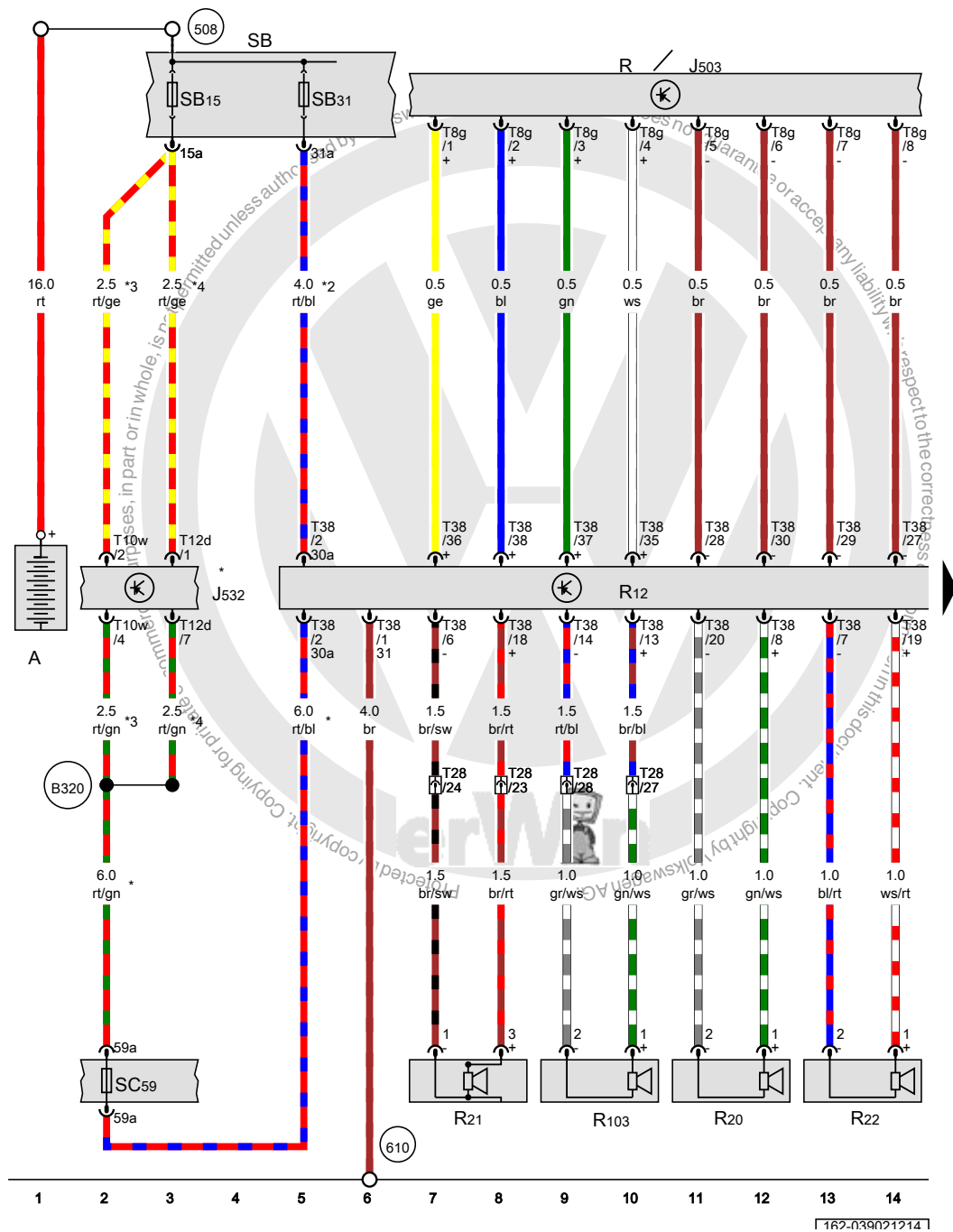


162-038021214

Sound system "Volkswagen Sound" , (8RB),(8RU)

from April 2010





Radio/navigation display unit control module, Voltage stabilizer, Radio, Amplifier, Left front treble speaker, Left front bass speaker, Right front treble speaker, Left front midrange speaker, Fuse panel B

- A Battery
- J503 Radio/navigation display unit control module
- J532 Voltage stabilizer
- R Radio
- R12 Amplifier
- R20 Left front treble speaker
- R21 Left front bass speaker
- R22 Right front treble speaker
- R103 Left front midrange speaker
- SB Fuse panel B
- SB15 Fuse 15 (on fuse panel B)
- SB31 Fuse 31 (on fuse panel B)
- SC59 Fuse 59 (on fuse panel C)
- T8g 8-pin connector
- T10w 10-pin connector
- T12d 12-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T38 38-pin connector

- 508 Terminal 30 threaded connection (on E-box)
- 610 Audio ground connection under front center console
- B320 Positive connection 6 (30a) (in main wiring harness)

- * Only for vehicles with Stop/Start system
- *2 Only for vehicles without Start/Stop system
- *3 Omitted as a running change
- *4 Running change

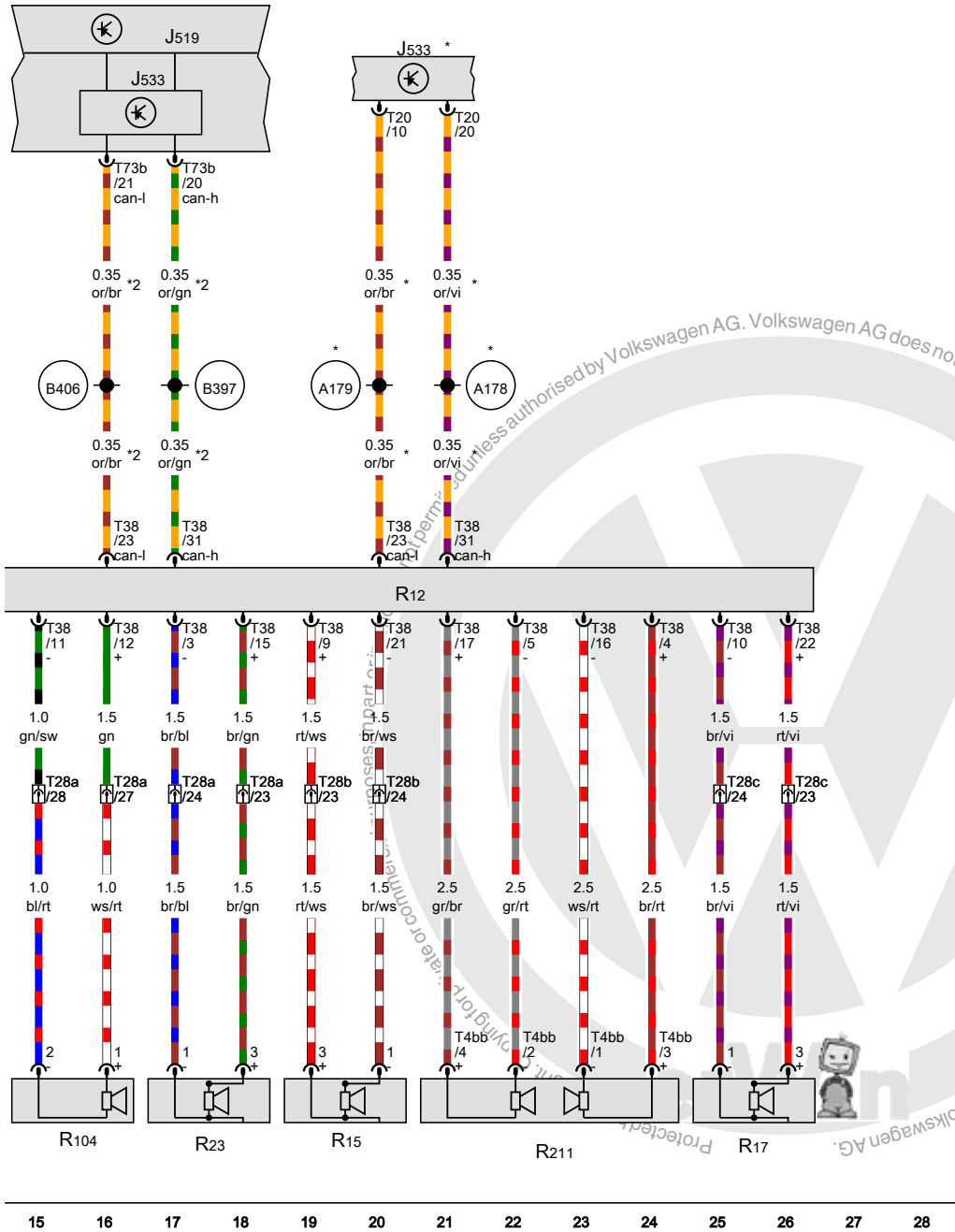
- ws = white
- sw = black
- ro = red
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- bl = blue
- gr = grey
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Vehicle electrical control module system, Data bus on board diagnostic interface, Amplifier, Left rear bass speaker, Right rear bass speaker, Right front bass speaker, Right front midrange speaker, Subwoofer

- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- R12 Amplifier
- R15 Left rear bass speaker
- R17 Right rear bass speaker
- R23 Right front bass speaker
- R104 Right front midrange speaker
- R211 Subwoofer
- T4bb 4-pin connector
- T20 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T28b 28-pin connector, on the left B-pillar
- T28c 28-pin connector, on the right B-pillar
- T38 38-pin connector
- T73b 73-pin connector

- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)

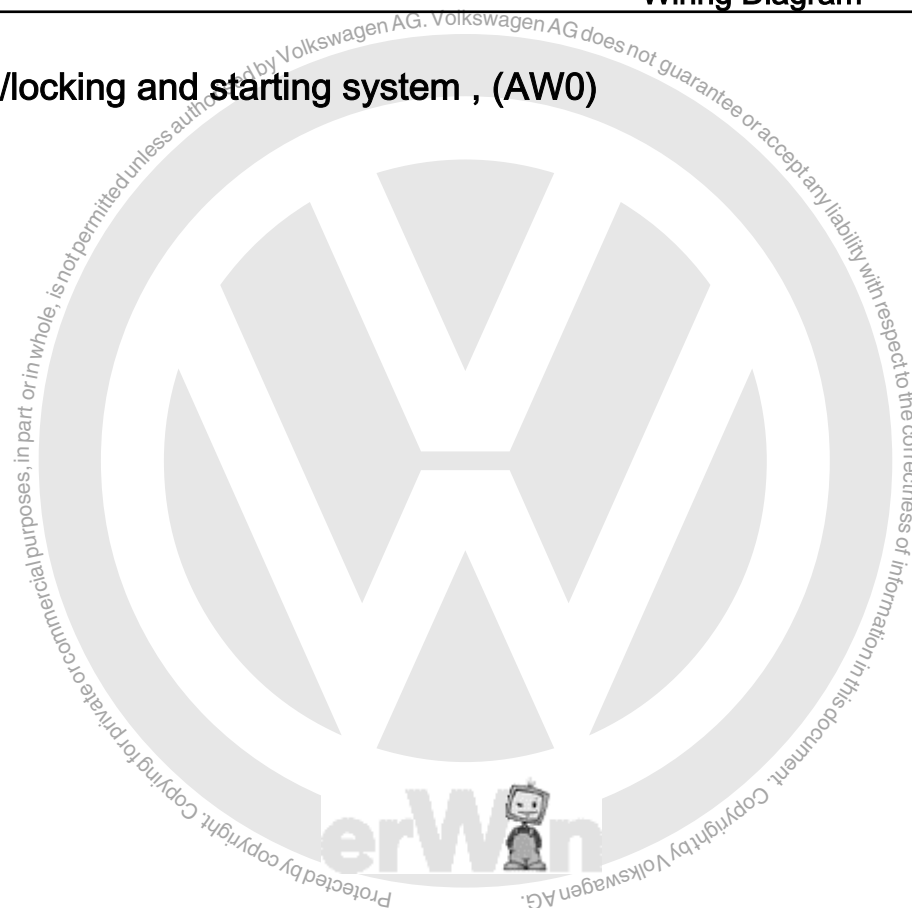
ws = white
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 vi = lilac
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 or = orange
 rs = pink

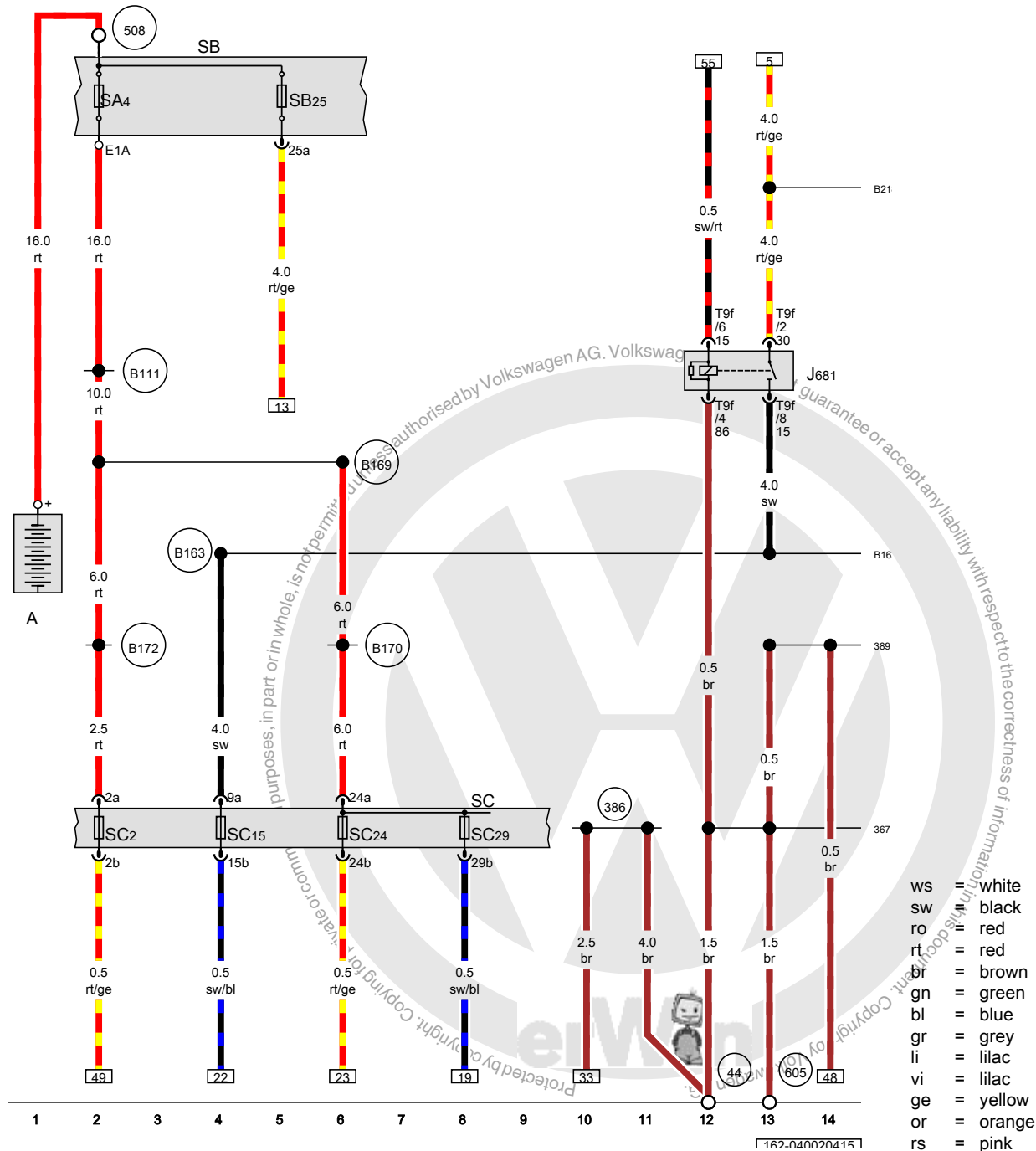


162-036031214

Keyless access/locking and starting system , (AW0)

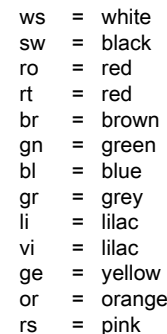
from April 2010



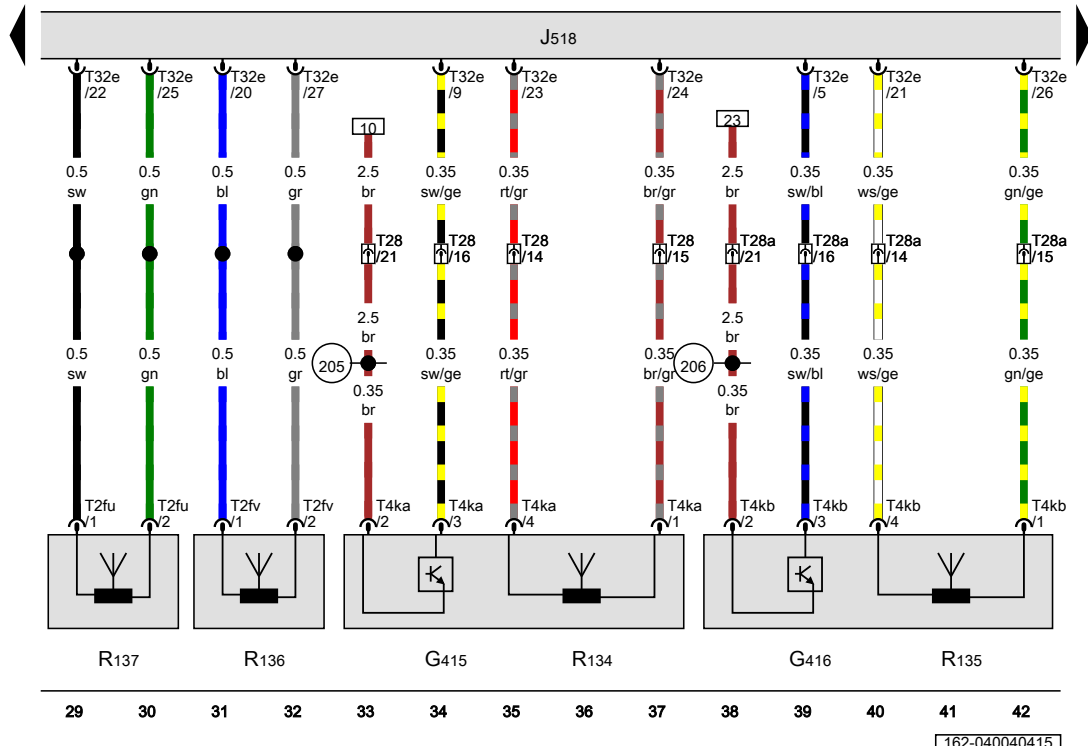


Terminal 15 power supply relay 2, Fuse panel B, Fuse panel C

- A Battery
- J681 Terminal 15 power supply relay 2
- SC2 Fuse 2 (on fuse panel C)
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SC15 Fuse 15 (on fuse panel C)
- SC24 Fuse 24 (on fuse panel C)
- SB25 Fuse 25 (on fuse panel B)
- SC Fuse panel C
- SC29 Fuse 29 (on fuse panel C)
- T9f 9-pin connector
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B218 Positive connection 6 (30) (in interior wiring harness)



- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- A1 Positive connection (30a) (in instrument panel wiring harness)
- B149 Positive connection 2 (15a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B218 Positive connection 6 (30) (in interior wiring harness)



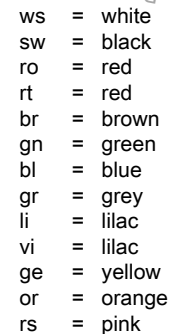
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

205 Ground connection (in driver door wiring harness)

206 Ground connection (in front passenger door wiring harness)

B383 Powertrain CAN bus high connection 1 (in main wiring harness)

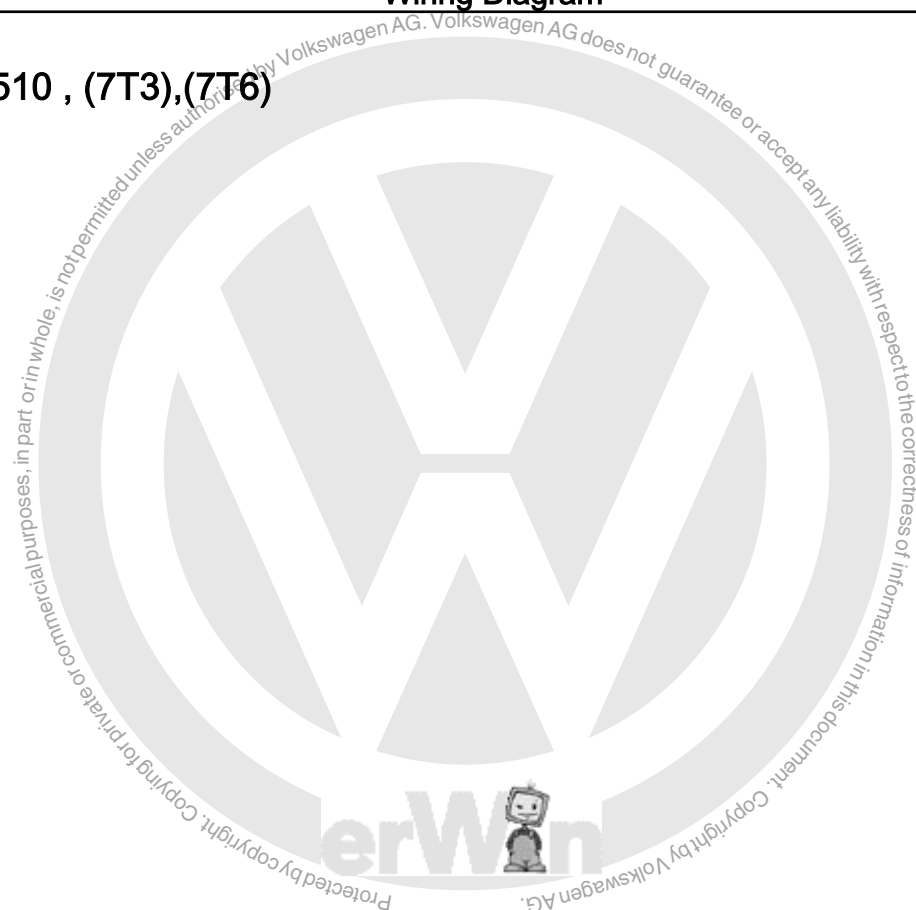
B390 Powertrain CAN bus low connection 1 (in main wiring harness)

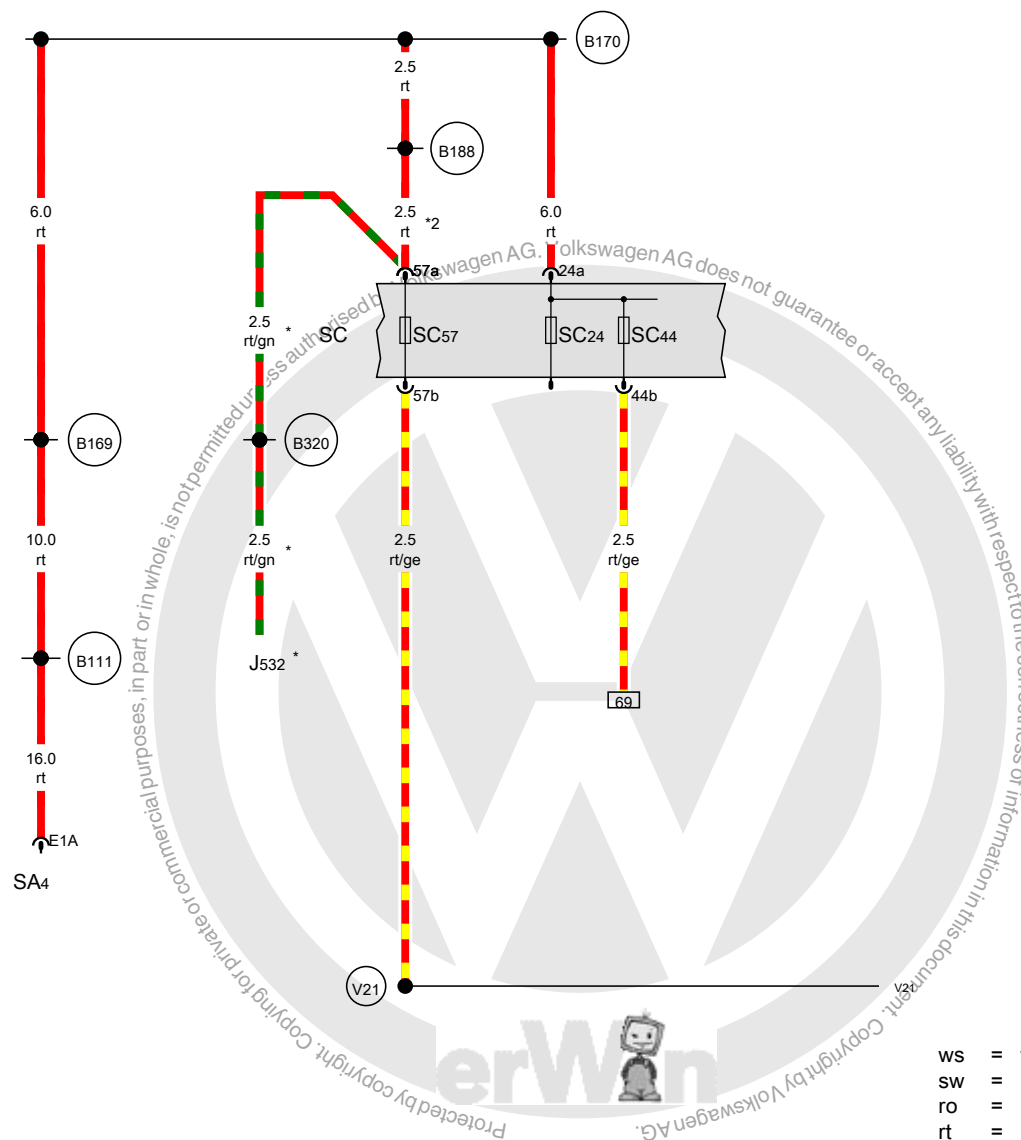


| | |
|------|---|
| A15 | Plus connection (15) (in instrument cluster wiring harness) |
| A41 | Positive connection (50) (in instrument panel wiring harness) |
| B114 | Lock switch connection (in interior wiring harness) |
| B346 | Connection 75 (in main wiring harness) 1 |
| B397 | Comfort system CAN bus high connection 1 (in main wiring harness) |
| B406 | Comfort system CAN bus low connection 1 (in main wiring harness) |
| * | Only for vehicles with automatic transmission |

Radio navigation system RNS 510 , (7T3),(7T6)

from April 2010





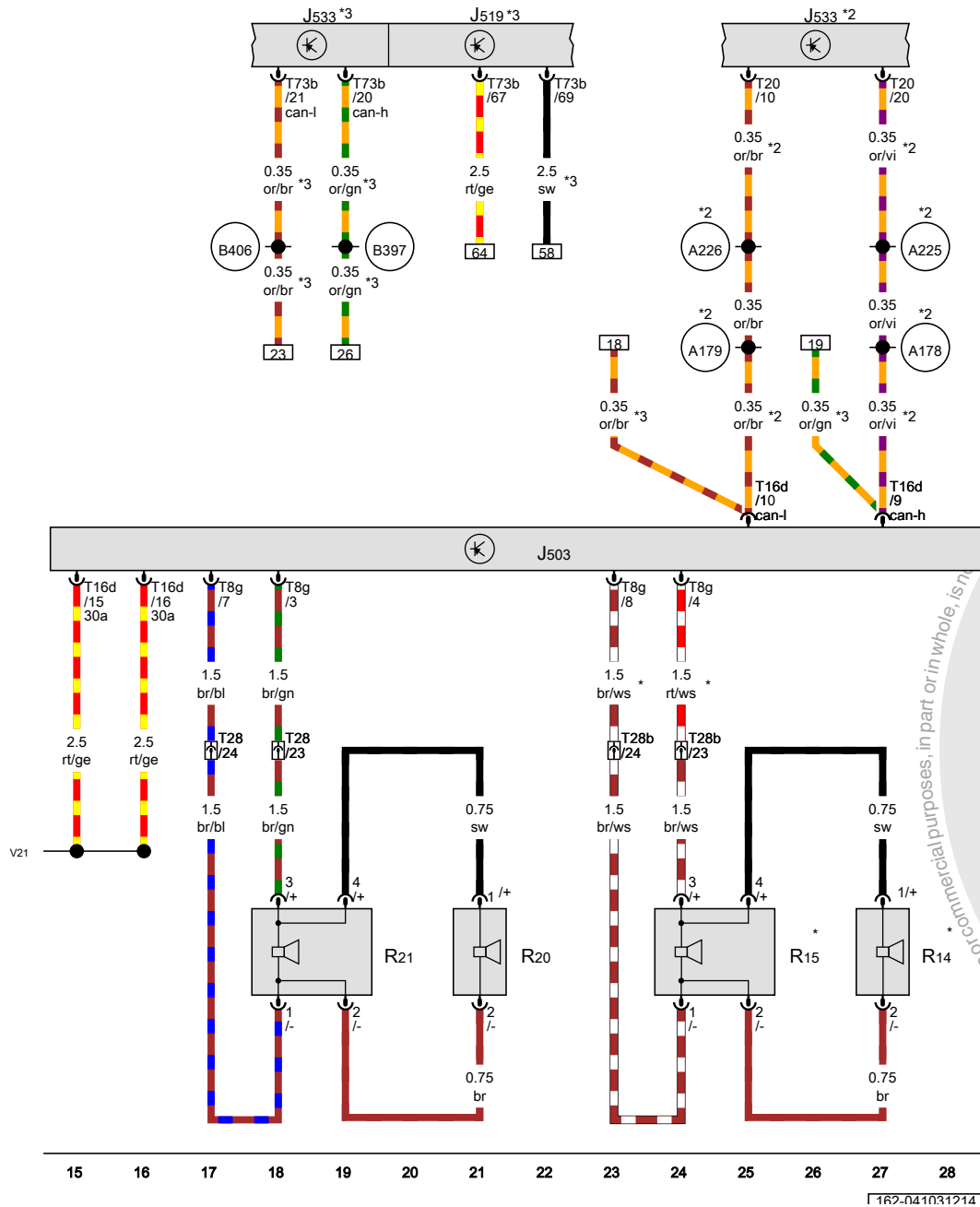
Fuse 4 (on fuse panel A), Fuse panel C

- J532 Voltage stabilizer
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC24 Fuse 24 (on fuse panel C)
- SC44 Fuse 44 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)

- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B188 Positive connection 5 (30) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)

- * Only for vehicles with Stop/Start system
- *2 Only for vehicles without Start/Stop system

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

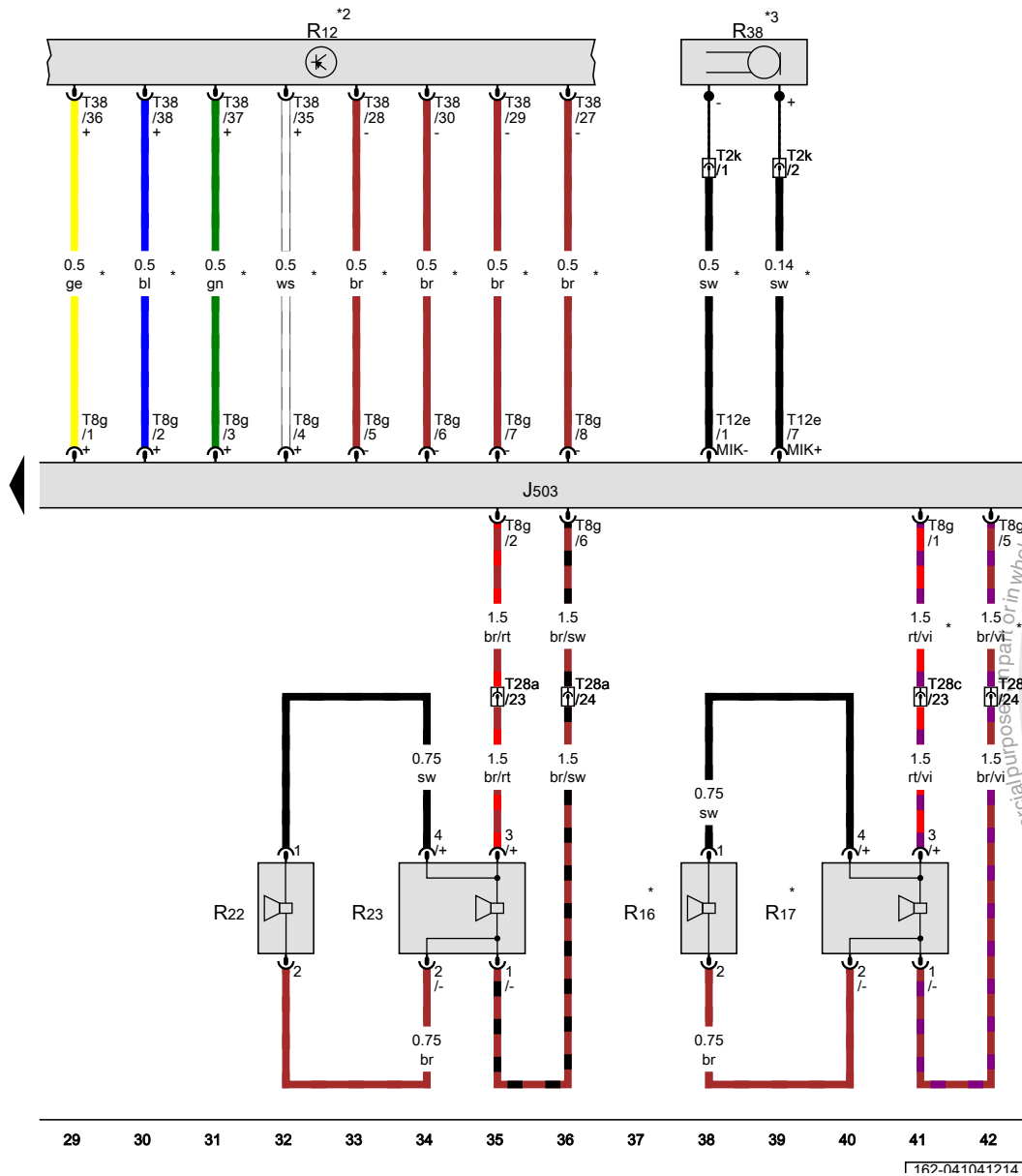


Radio/navigation display unit control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Left front treble speaker, Left front bass speaker

- J503 Radio/navigation display unit control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R20 Left front treble speaker
- R21 Left front bass speaker
- T8g 8-pin connector
- T16d 16-pin connector
- T20 20-pin connector
- T28 28-pin connector
- T28b 28-pin connector
- T73b 73-pin connector
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)
- * Depending on equipment
- *2 only for vehicles with High equipment (AW1)
- *3 only for vehicles with Low equipment (AW0)

Radio/navigation display unit control module, Right front treble speaker, Right front bass speaker

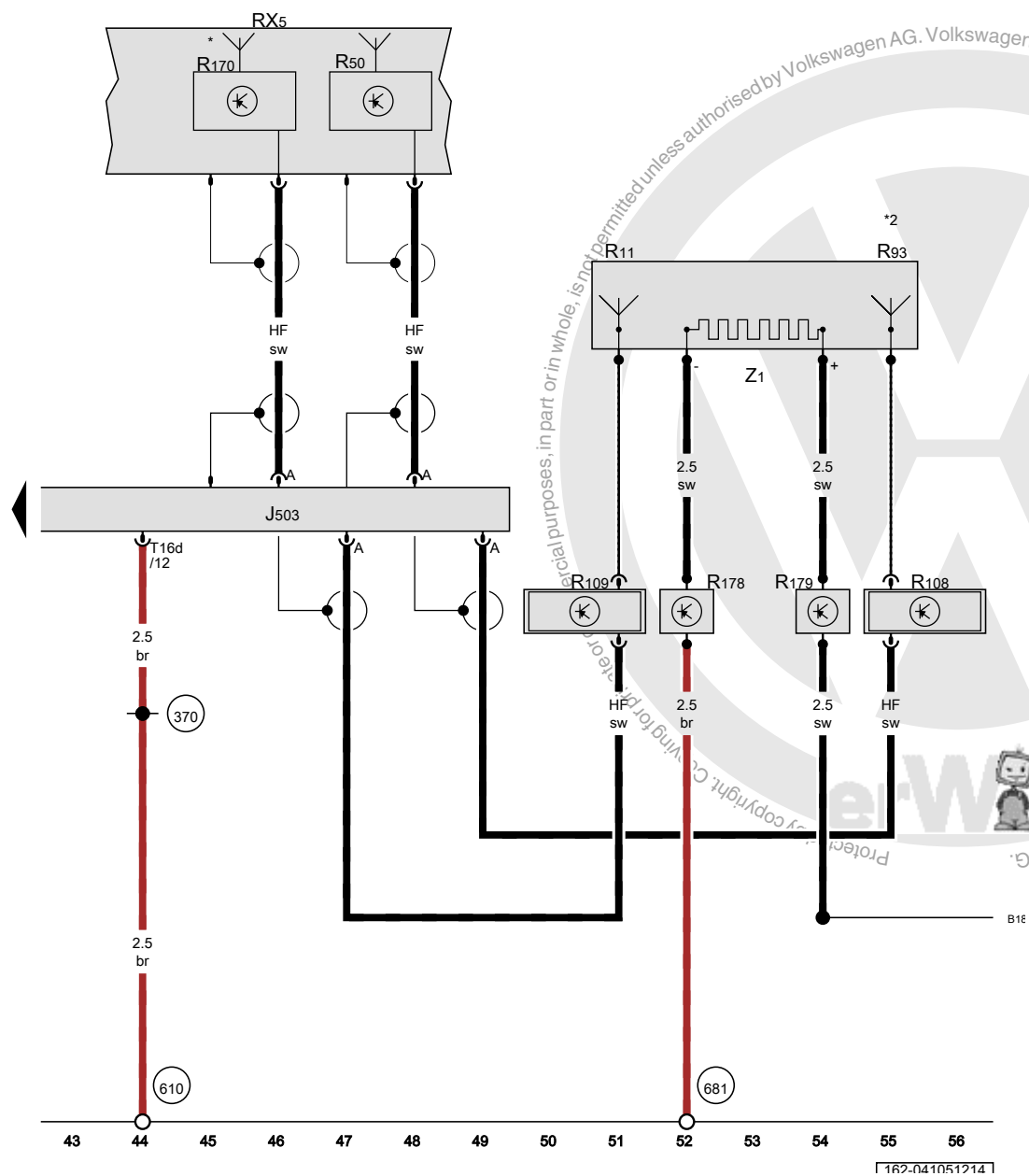
- J503 Radio/navigation display unit control module
- R12 Amplifier
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- R38 Telephone microphone
- T2k Double connector
- T8g 8-pin connector
- T12e 12-pin connector
- T28a 28-pin connector
- T28c 28-pin connector
- T38 38-pin connector
- * Depending on equipment
- *2 Refer to applicable sound system wiring diagram
- *3 Refer to applicable telephone systems wiring diagram



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- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-041041214

Radio/navigation display unit control module, GPS antenna, Left antenna module, Right antenna module, Rear window defogger



- J503 Radio/navigation display unit control module
- RX5 Roof antenna
- R11 Antenna
- R50 GPS antenna
- R93 Radio antenna 2
- R108 Left antenna module
- R109 Right antenna module
- R170 Satellite antenna
- R178 FM frequency filter in negative wire
- R179 FM frequency filter in positive wire
- T16d 16-pin connector
- Z1 Rear window defogger

- 370 Ground connection 5 (in main wiring harness)
- 610 Audio ground connection under front center console
- 681 Ground connection 1 in right rear side panel
- B180 Rear window defogger connection (in interior wiring harness)

- * USA only
- *2 Depending on equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Rear window defogger relay

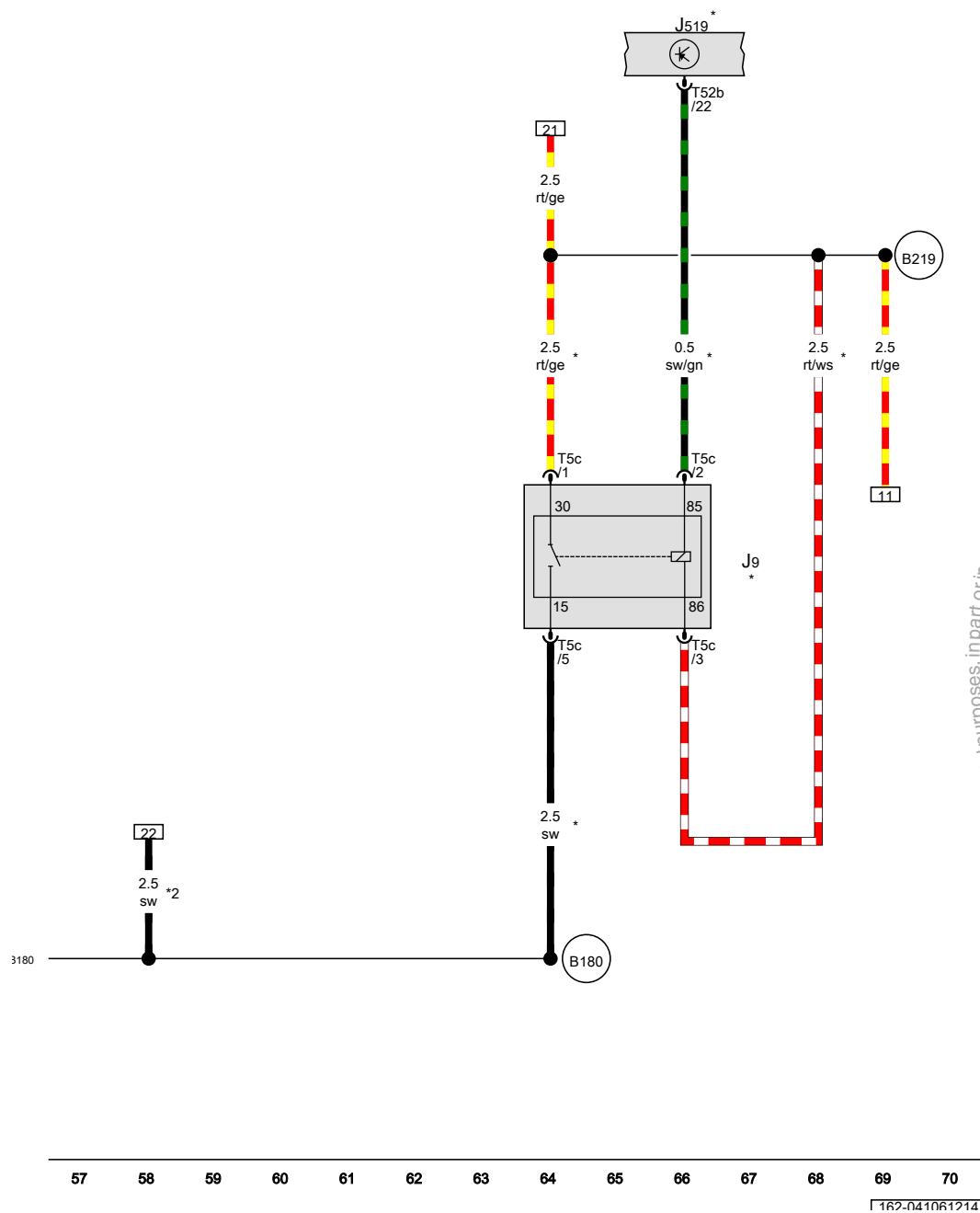
- J9 Rear window defogger relay
- J519 Vehicle electrical control module system
- T5c 5-pin connector
- T52b 52-pin connector

(B180) Rear window defogger connection (in interior wiring harness)

(B219) Positive connection 4 (30a) (in interior wiring harness)

* only for vehicles with High equipment (AW1)

*2 only for vehicles with Low equipment (AW0)

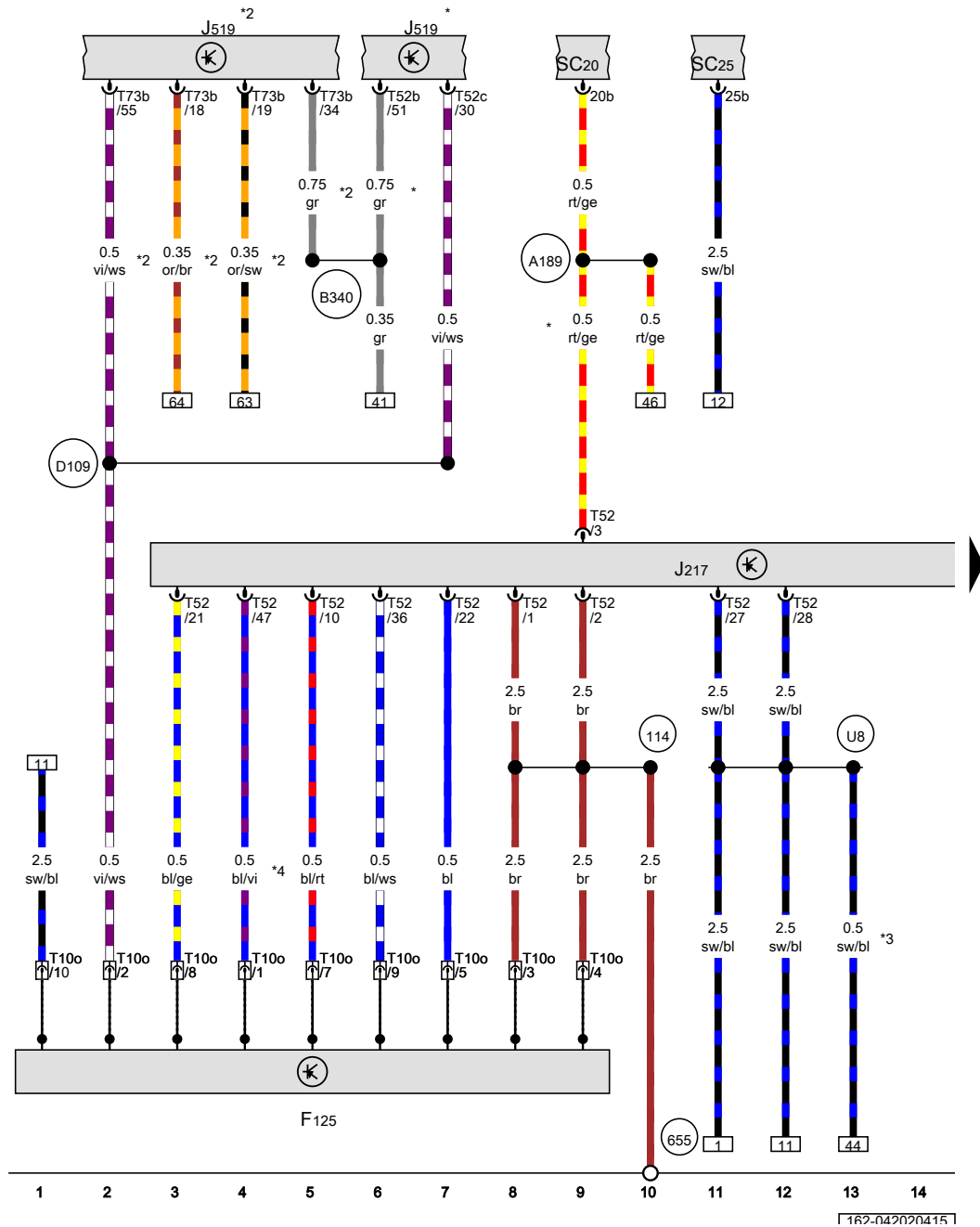


- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Automatic transmission 6-speed 09G , (0ER)

from April 2010





Multifunction transmission range switch, Transmission control module, Vehicle electrical control module system, Fuse 20 (on fuse panel C), Fuse 25 (on fuse panel C)

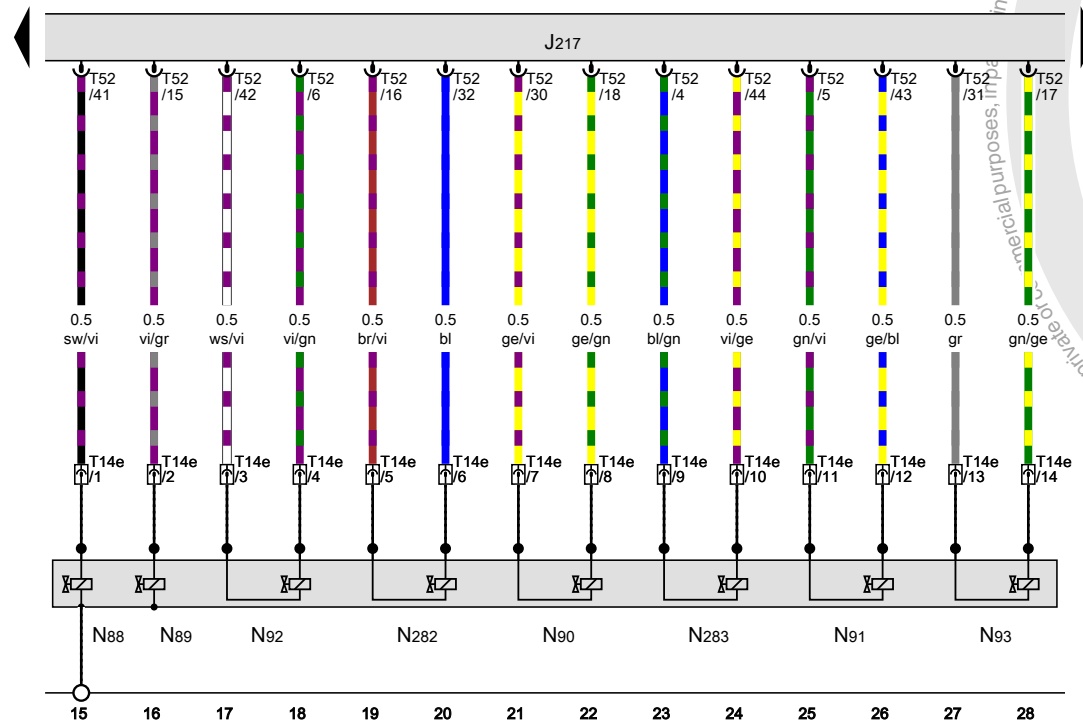
- F125 Multifunction transmission range switch
- J217 Transmission control module
- J519 Vehicle electrical control module system
- SC20 Fuse 20 (on fuse panel C)
- SC25 Fuse 25 (on fuse panel C)
- T10o 10-pin connector
- T52 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T73b 73-pin connector

- 114 Ground connection (in automatic transmission wiring harness)
- 655 Ground connection on left headlamp
- A189 Positive connection 5 (30a) (in instrument panel wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- D109 Connection 7 (in engine compartment wiring harness)
- U8 Positive connection (15a) (in automatic transmission wiring harness)
- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)
- *3 Through May 2012
- *4 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Transmission control module, Solenoid valve 1, Solenoid valve 2, Solenoid valve 3, Solenoid valve 4, Solenoid valve 5, Solenoid valve 6, Solenoid valve 9, Solenoid valve 10

- J217 Transmission control module
- N88 Solenoid valve 1
- N89 Solenoid valve 2
- N90 Solenoid valve 3
- N91 Solenoid valve 4
- N92 Solenoid valve 5
- N93 Solenoid valve 6
- N282 Solenoid valve 9
- N283 Solenoid valve 10
- T14e 14-pin connector
- T52 52-pin connector



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- rt = red
- br = brown
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- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-042030415

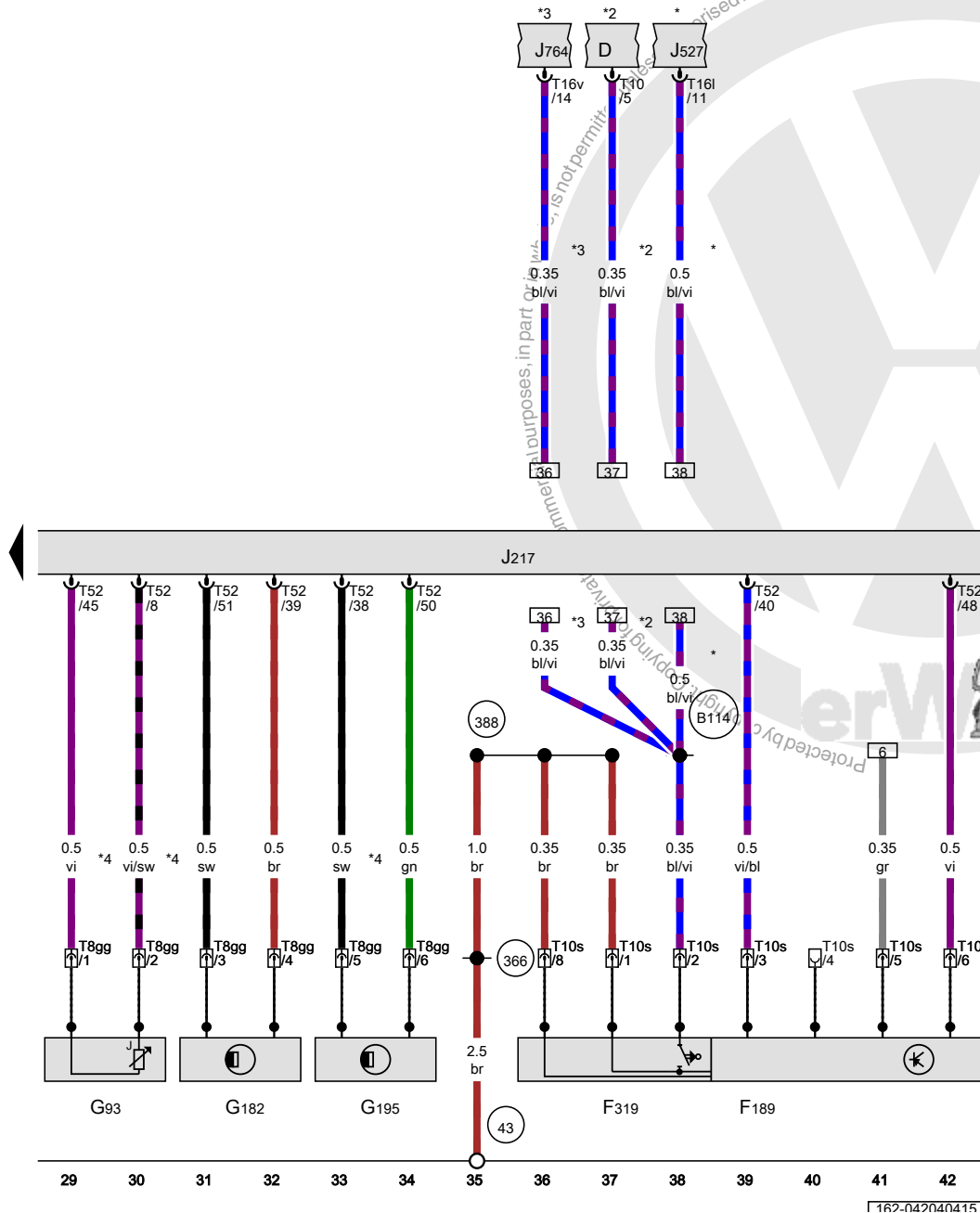
tiptronic switch, Selector lever park position lock switch, Transmission fluid temperature sensor, Transmission input speed sensor, Transmission output speed sensor, Transmission control module

- D Ignition/starter switch
- F189 tiptronic switch
- F319 Selector lever park position lock switch
- G93 Transmission fluid temperature sensor
- G182 Transmission input speed sensor
- G195 Transmission output speed sensor
- J217 Transmission control module
- J527 Steering column electronics control module
- J764 Electronic steering column lock control module
- T8gg 8-pin connector
- T10 10-pin connector
- T10s 10-pin connector
- T16l 16-pin connector
- T16v 16-pin connector
- T52 52-pin connector

- 43 Ground connection on A-pillar, lower right
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- B114 Lock switch connection (in interior wiring harness)

- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)
- *3 only for vehicles with access/start authorization system
- *4 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



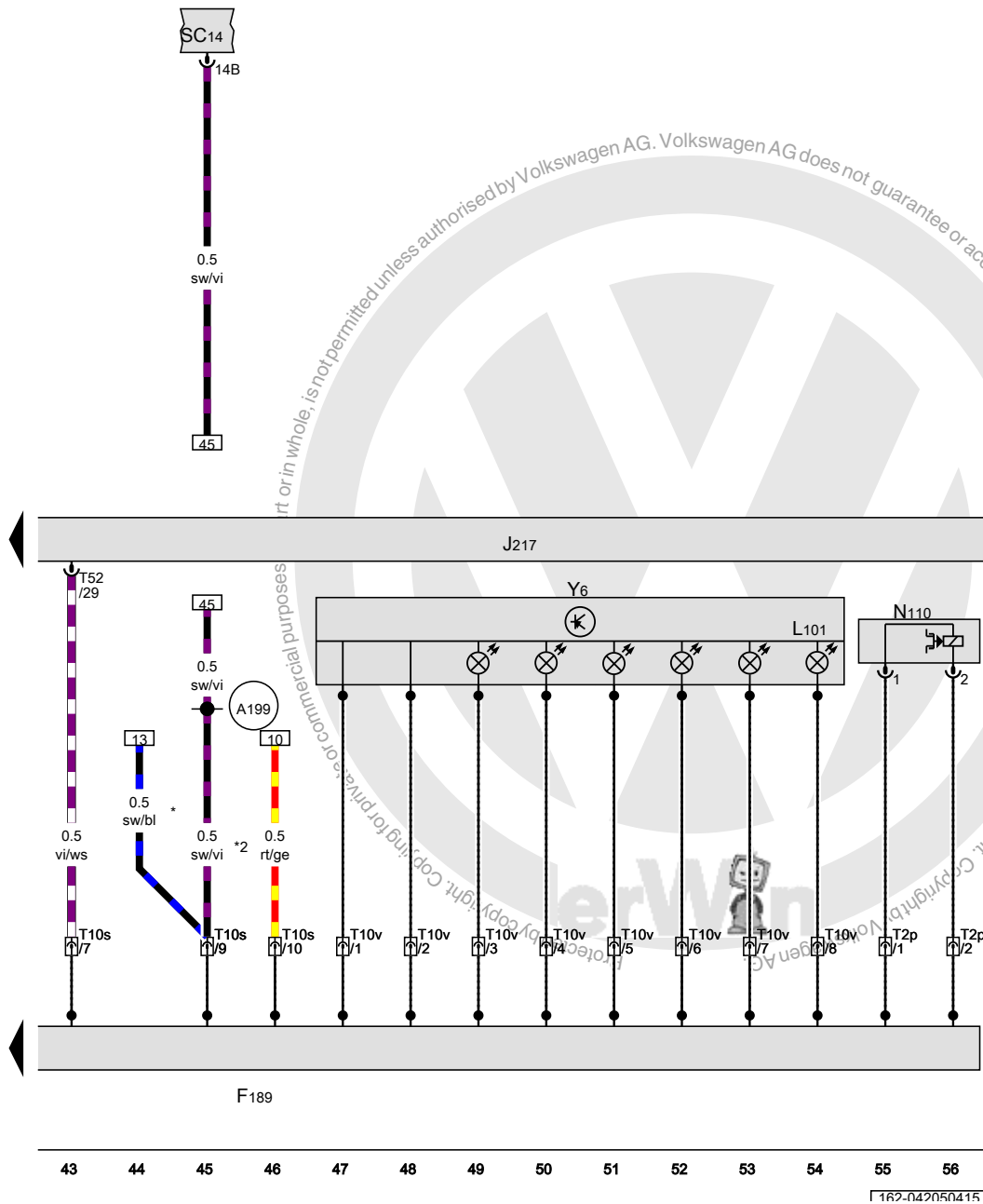
tiptronic switch, Transmission control module, Selector lever scale illumination bulb, Shift lock solenoid, Transmission range display

- F189 tiptronic switch
- J217 Transmission control module
- L101 Selector lever scale illumination bulb
- N110 Shift lock solenoid
- SC14 Fuse 14 (on fuse panel C)
- T2p Double connector
- T10s 10-pin connector
- T10v 10-pin connector
- T52 52-pin connector
- Y6 Transmission range display

A199 Positive connection 4 (15a) (in instrument panel wiring harness)

* Through May 2012

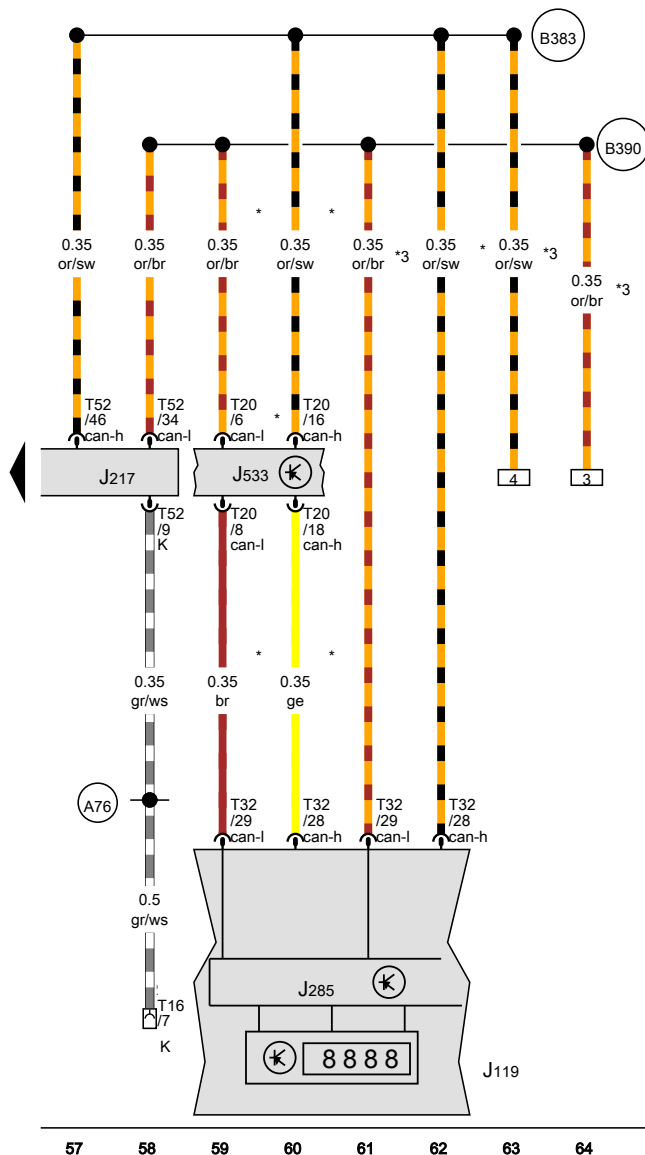
*2 from June 2012



Multifunction indicator, Transmission control module, Instrument cluster control module, Data bus on board diagnostic interface

- J119 Multifunction indicator
- J217 Transmission control module
- J285 Instrument cluster control module
- J533 Data bus on board diagnostic interface
- T16 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T52 52-pin connector

- A76 KS-diagnostic lead connection (in instrument panel wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- * only for vehicles with High equipment (AW1)
- *2 Diagnostic connector
- *3 only for vehicles with Low equipment (AW0)



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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-042060415

Radio system RCD 510 , (8AI),(8AU),(8AX),(8DD)

from April 2010

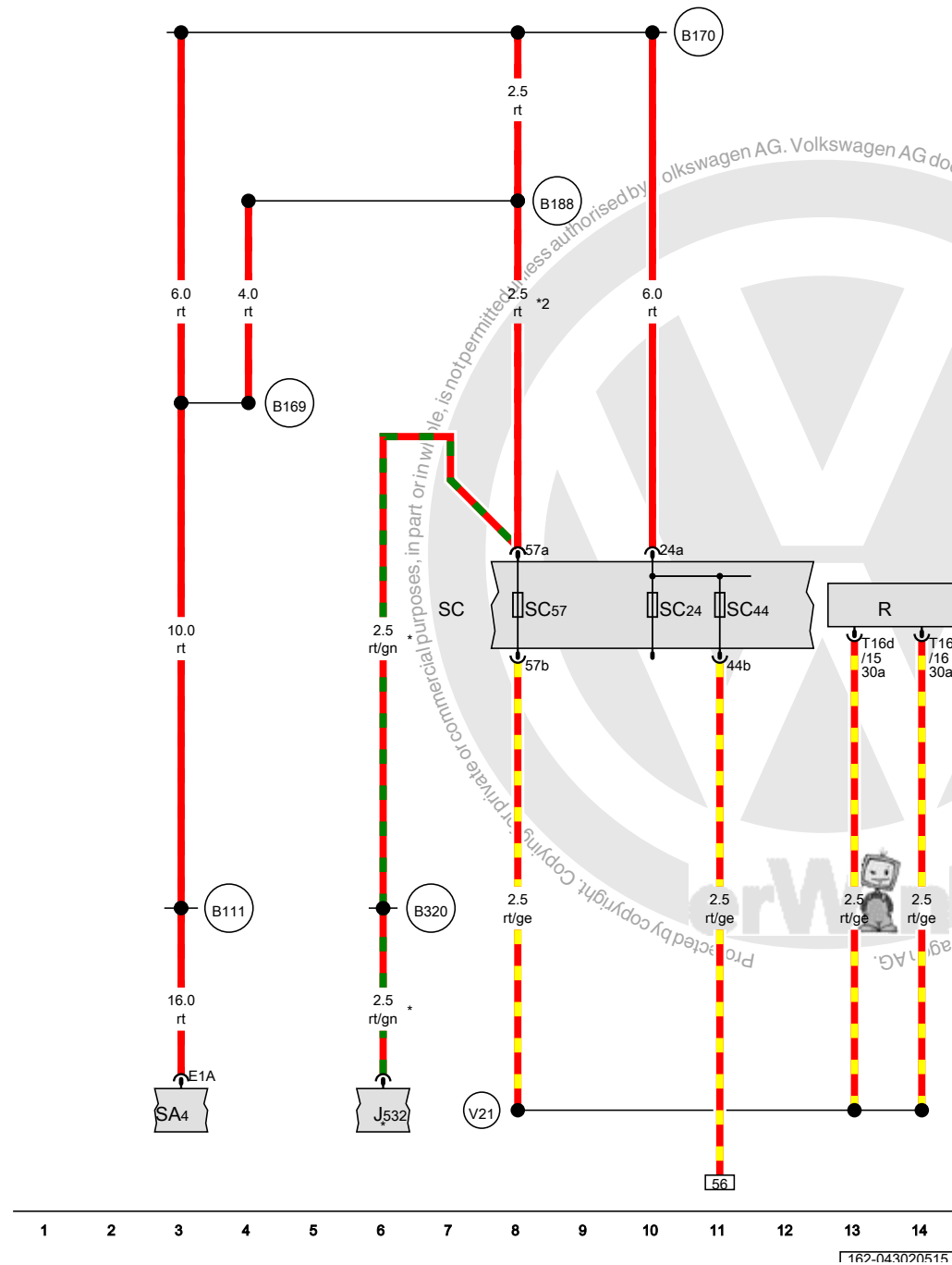


Radio, Fuse 4 (on fuse panel A), Fuse panel C, Fuse 57 (on fuse panel C)

- J532 Voltage stabilizer
- R Radio
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC24 Fuse 24 (on fuse panel C)
- SC44 Fuse 44 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)
- T16d 16-pin connector

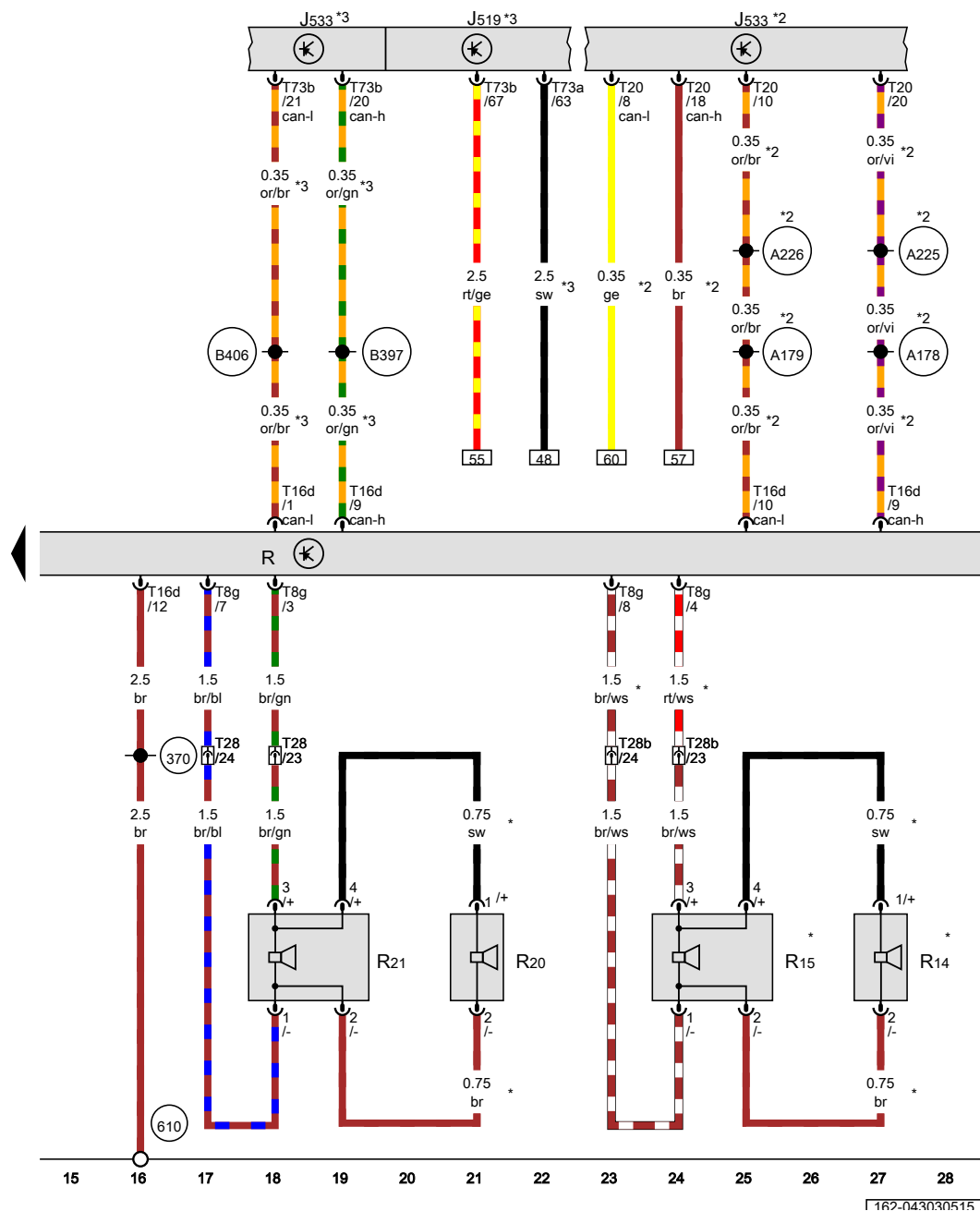
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B188 Positive connection 5 (30) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)

- * Only for vehicles with Stop/Start system
- *2 Only for vehicles without Start/Stop system



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Vehicle electrical control module system, Data bus on board diagnostic interface, Radio, Left front treble speaker, Left front bass speaker

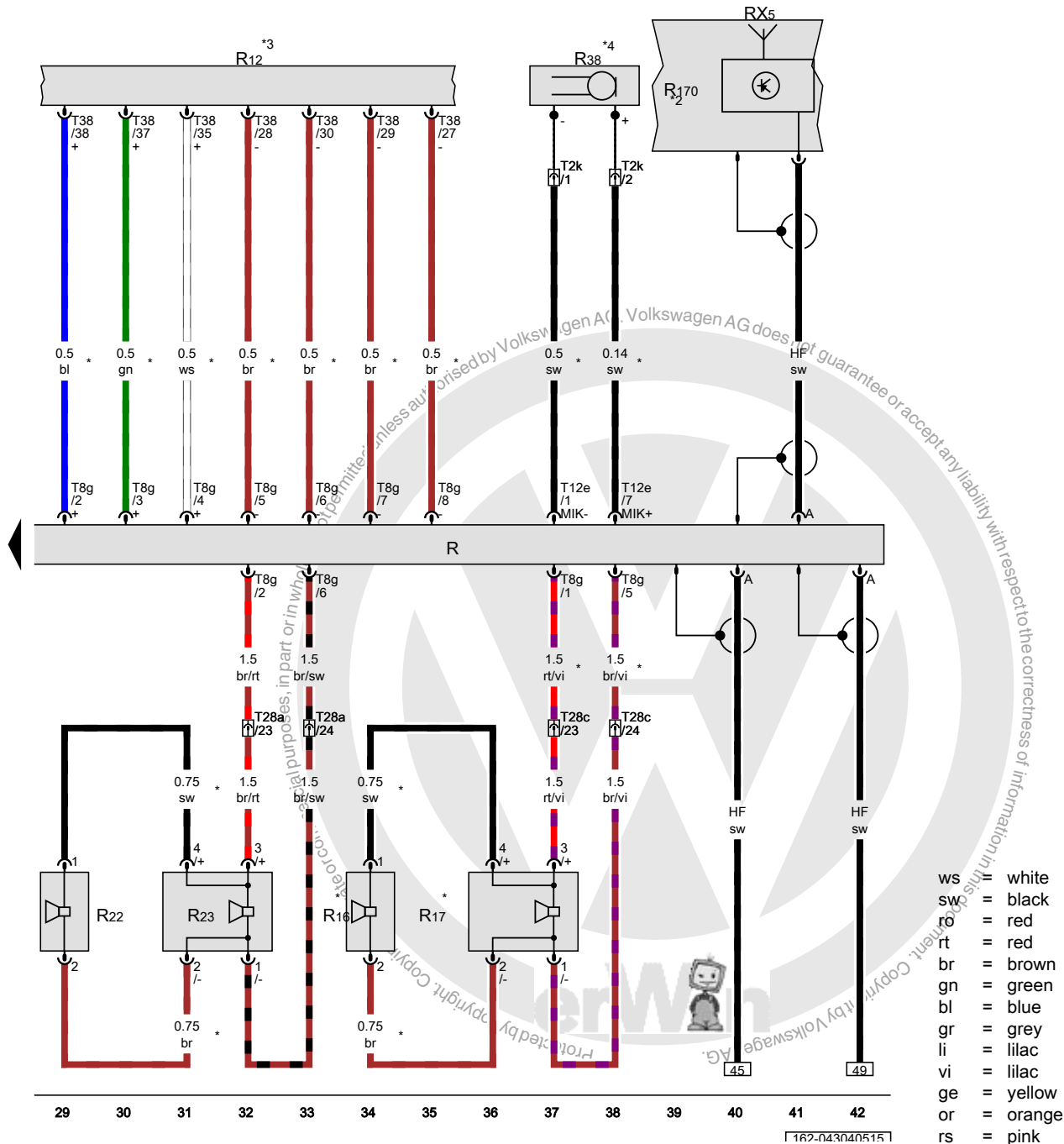


- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- R Radio
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R20 Left front treble speaker
- R21 Left front bass speaker
- T8g 8-pin connector
- T16d 16-pin connector
- T20 20-pin connector
- T28 28-pin connector
- T28b 28-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- 370 Ground connection 5 (in main wiring harness)
- 610 Audio ground connection under front center console
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- Depending on equipment
- *2 only for vehicles with High equipment (AW1)
- *3 only for vehicles with Low equipment (AW0)

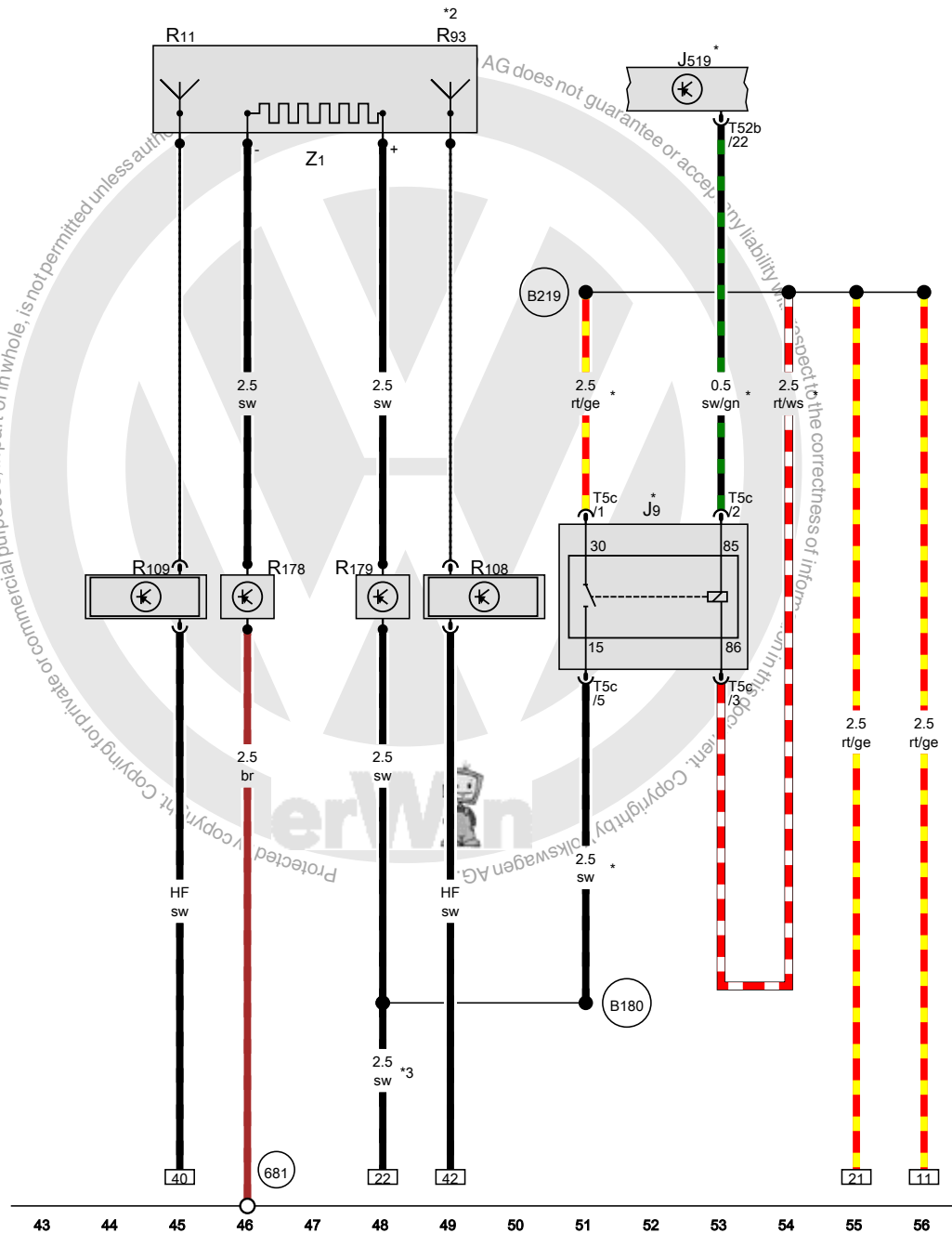
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
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- gr = grey
- li = lilac
- vi = lilac
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- or = orange
- rs = pink

Radio, Right front treble speaker, Right front bass speaker



- R Radio
- RX5 Roof antenna
- R12 Amplifier
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- R38 Telephone microphone
- R170 Satellite antenna
- T2k Double connector
- T8g 8-pin connector
- T12e 12-pin connector
- T28a 28-pin connector
- T28c 28-pin connector
- T38 38-pin connector
- * Depending on equipment
- *2 USA only
- *3 Refer to applicable sound system wiring diagram
- *4 Refer to applicable telephone systems wiring diagram

Rear window defogger relay, Left antenna module, Right antenna module, Rear window defogger

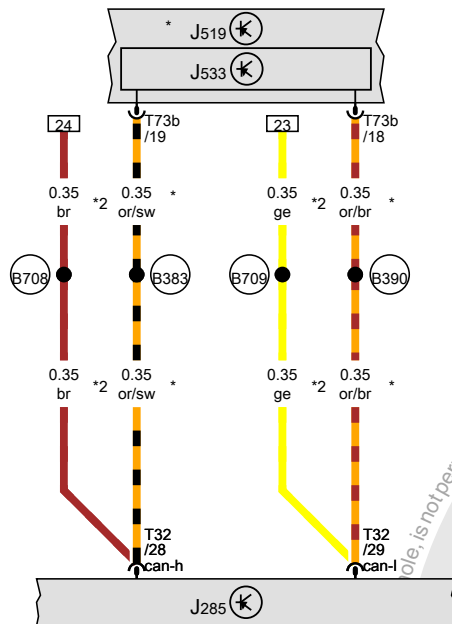


- J9 Rear window defogger relay
- J519 Vehicle electrical control module system
- R11 Antenna
- R93 Radio antenna 2
- R108 Left antenna module
- R109 Right antenna module
- R178 FM frequency filter in negative wire
- R179 FM frequency filter in positive wire
- T5c 5-pin connector
- T52b 52-pin connector
- Z1 Rear window defogger

- 681 Ground connection 1 in right rear side panel
- B180 Rear window defogger connection (in interior wiring harness)
- B219 Positive connection 4 (30a) (in interior wiring harness)

- * only for vehicles with High equipment (AW1)
- *2 Depending on equipment
- *3 only for vehicles with Low equipment (AW0)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Instrument cluster control module

- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- T32 32-pin connector
- T73b 73-pin connector

B383 Powertrain CAN bus high connection 1 (in main wiring harness)

B390 Powertrain CAN bus low connection 1 (in main wiring harness)

B708 Instrument cluster CAN bus high connection 1 (in main wiring harness)

B709 Instrument cluster CAN bus low connection 1 (in main wiring harness)

* only for vehicles with Low equipment (AW0)

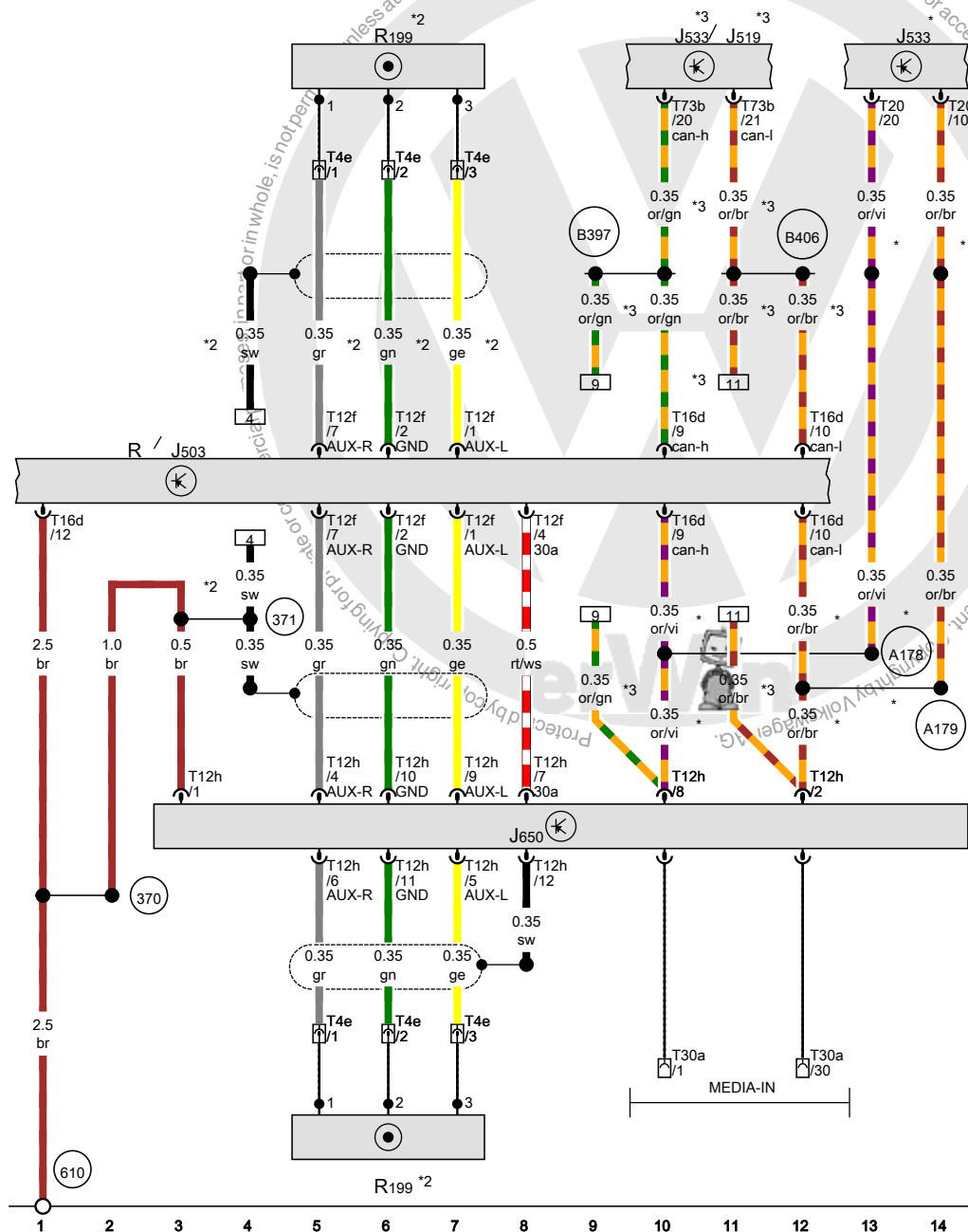
*2 only for vehicles with High equipment (AW1)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

MEDIA-IN multimedia socket , (UF6),(UF8),(UF9)

from April 2010





Radio/navigation display unit control module, Vehicle electrical system control module, Multimedia system control module, Radio, External audio source connection

- J503 Radio/navigation display unit control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- J650 Multimedia system control module
- R Radio
- R199 External audio source connection
- T4e 4-pin connector
- T12f 12-pin connector
- T12h 12-pin connector
- T16d 16-pin connector
- T20 20-pin connector
- T30a 30-pin connector
- T73b 73-pin connector

- 370 Ground connection 5 (in main wiring harness)
- 371 Ground connection 6 (in main wiring harness)
- 610 Audio ground connection under front center console
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- * only for vehicles with High equipment (AW1)
- *2 Depending on equipment
- *3 only for vehicles with Low equipment (AW0)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Coolant fan , (9AB),(9AK),(9AP),(KH6)

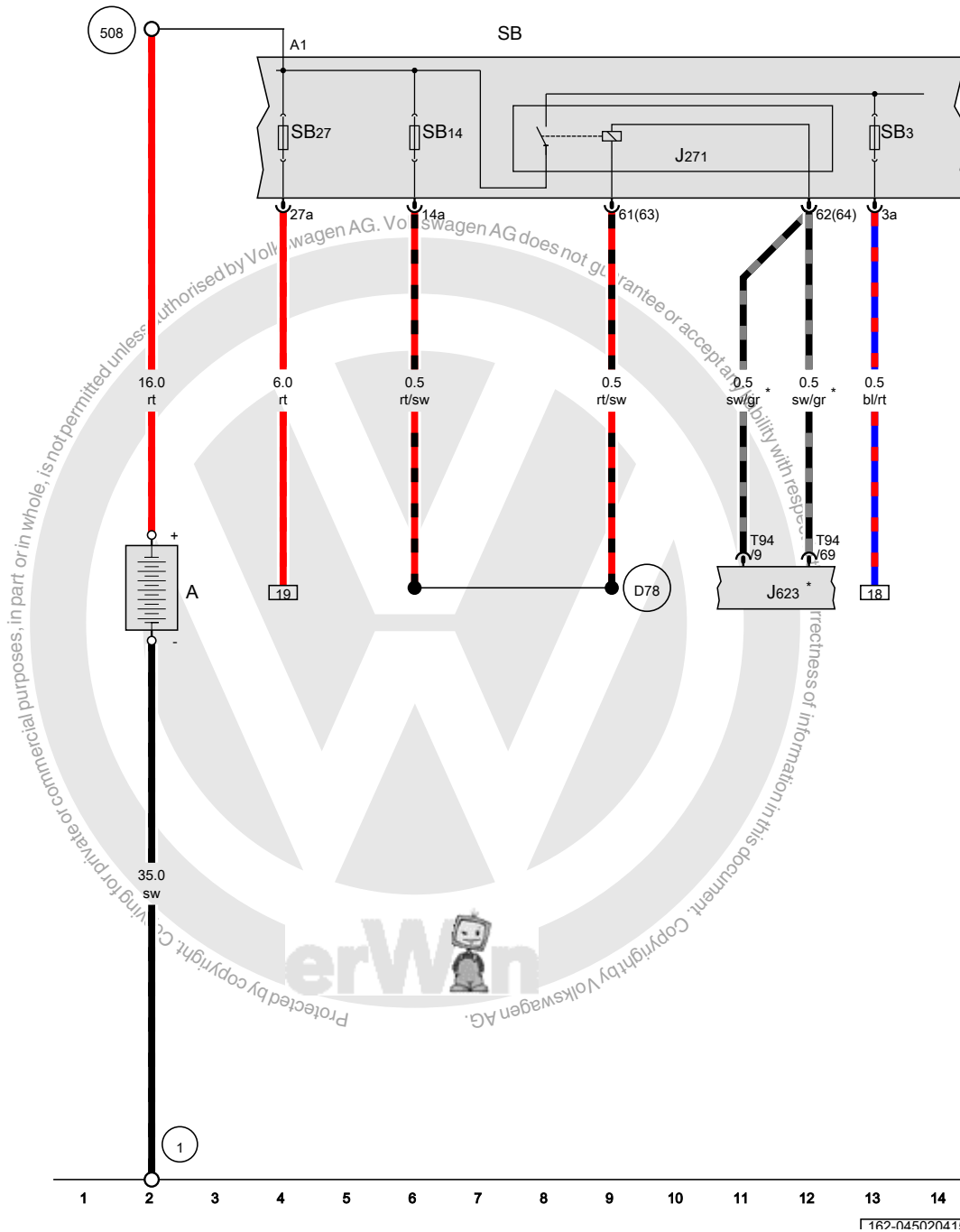
from April 2010



Battery, Motronic engine control module power supply relay

- A Battery
- J271 Motronic engine control module power supply relay
- J623 Engine control module
- SB Fuse panel B
- SB3 Fuse 3 (on fuse panel B)
- SB14 Fuse 14 (on fuse panel B)
- SB27 Fuse 27 (on fuse panel B)
- T94 94-pin connector

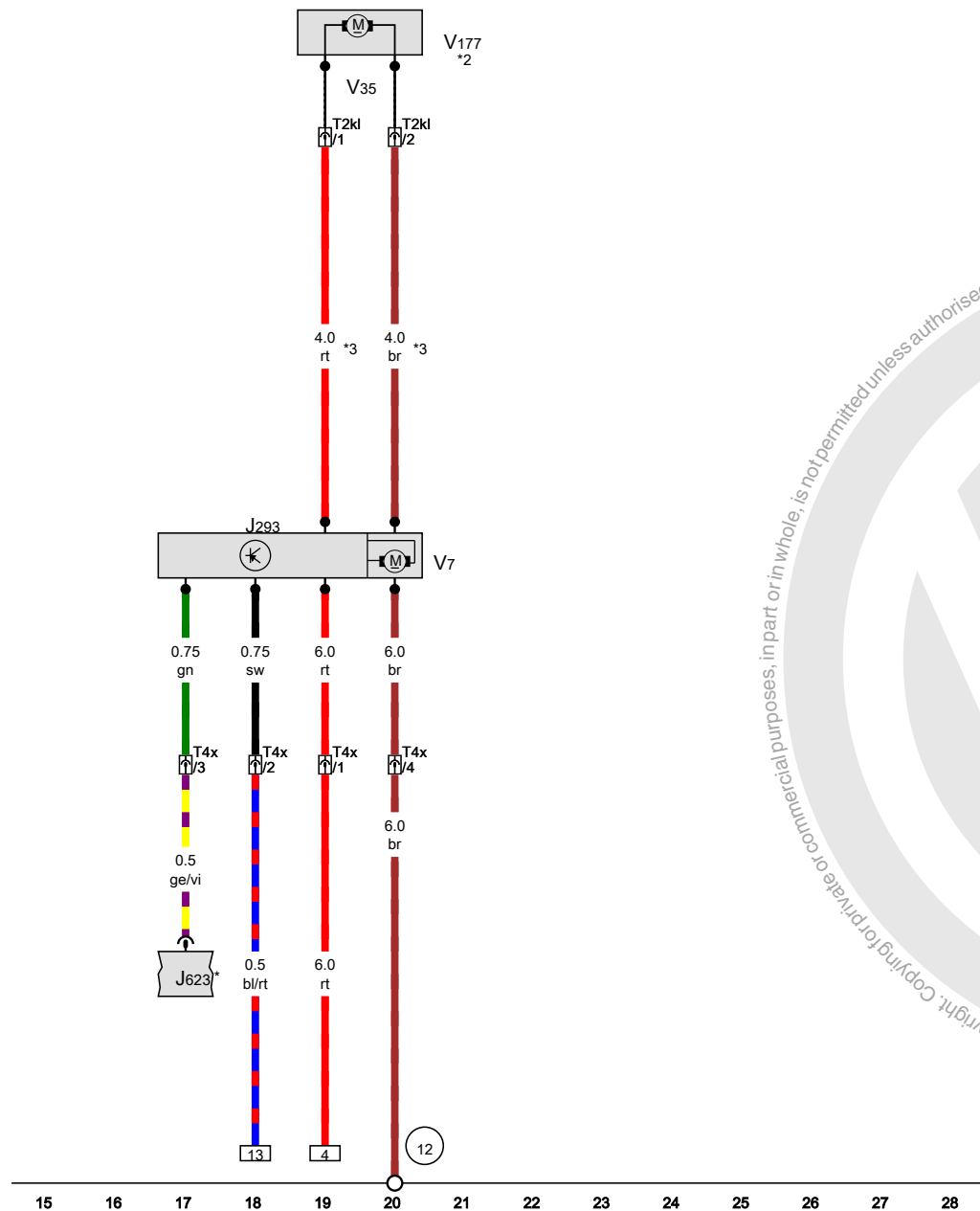
- 1 Ground strap, battery to body
- 508 Terminal 30 threaded connection (on E-box)
- D78 Positive connection 1 (30a) (in engine compartment wiring harness)
- * Refer to applicable engine wiring diagram



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Radiator fan control module, Radiator fan, Right radiator fan, Radiator fan 2

- J293 Radiator fan control module
- J623 Engine control module
- T2kl Double connector
- T4x 4-pin connector
- V7 Radiator fan
- V35 Right radiator fan
- V177 Radiator fan 2
- 12 Ground connection in engine compartment, left
- * Refer to applicable engine wiring diagram
- *2 Depending on equipment
- *3 Only for vehicles with two coolant fans

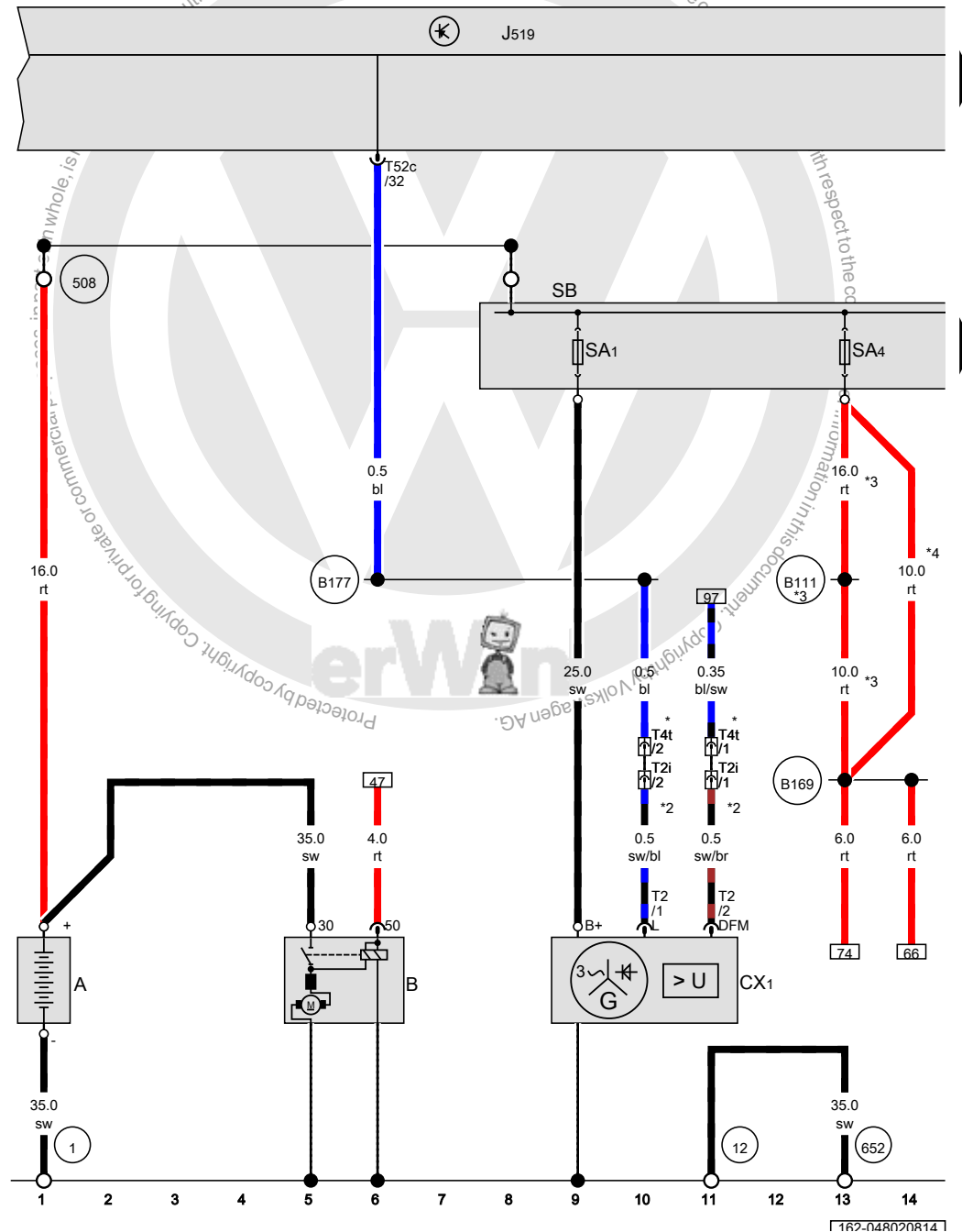


ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

2.0L gasoline engine , CBPA,(AW1)

from February 2011





Battery, Starter, Generator with voltage regulator, Vehicle electrical control module system, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A), Fuse panel B

- A Battery
- B Starter
- CX1 Generator with voltage regulator
- J519 Vehicle electrical control module system
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- T2 Double connector
- T2i Double connector, near the starter
- T4t 4-pin connector, near the starter
- T52c 52-pin connector

- 1 Ground strap, battery to body
- 12 Ground connection in engine compartment, left
- 508 Terminal 30 threaded connection (on E-box)
- 652 Transmission/engine ground connection
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B177 Connection 61 (in interior wiring harness)
- * Only for vehicles with A/C system
- *2 Only for vehicles without an A/C system
- *3 Omitted as a running change
- *4 Running change

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

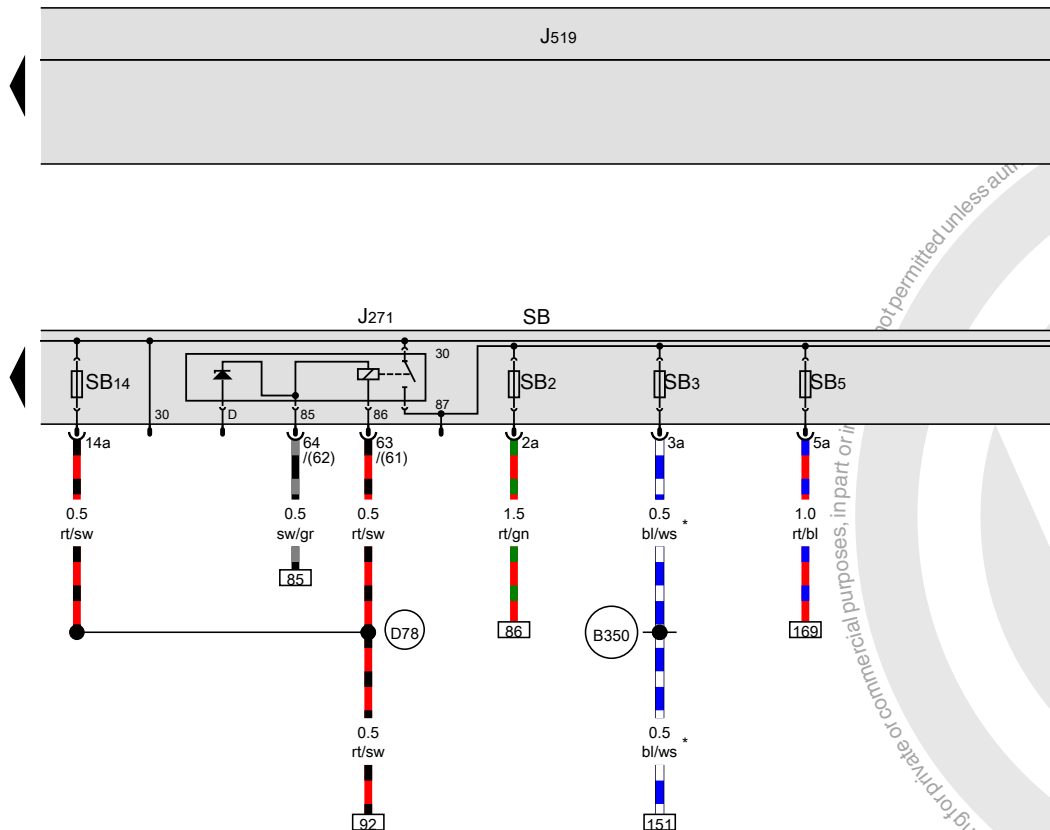
Motronic engine control module power supply relay, Vehicle electrical control module system, Fuse panel B

- J271 Motronic engine control module power supply relay
- J519 Vehicle electrical control module system
- SB Fuse panel B
- SB2 Fuse 2 (on fuse panel B)
- SB3 Fuse 3 (on fuse panel B)
- SB5 Fuse 5 (on fuse panel B)
- SB14 Fuse 14 (on fuse panel B)

B350 Positive connection 1 (87a) (in main wiring harness)

D78 Positive connection 1 (30a) (in engine compartment wiring harness)

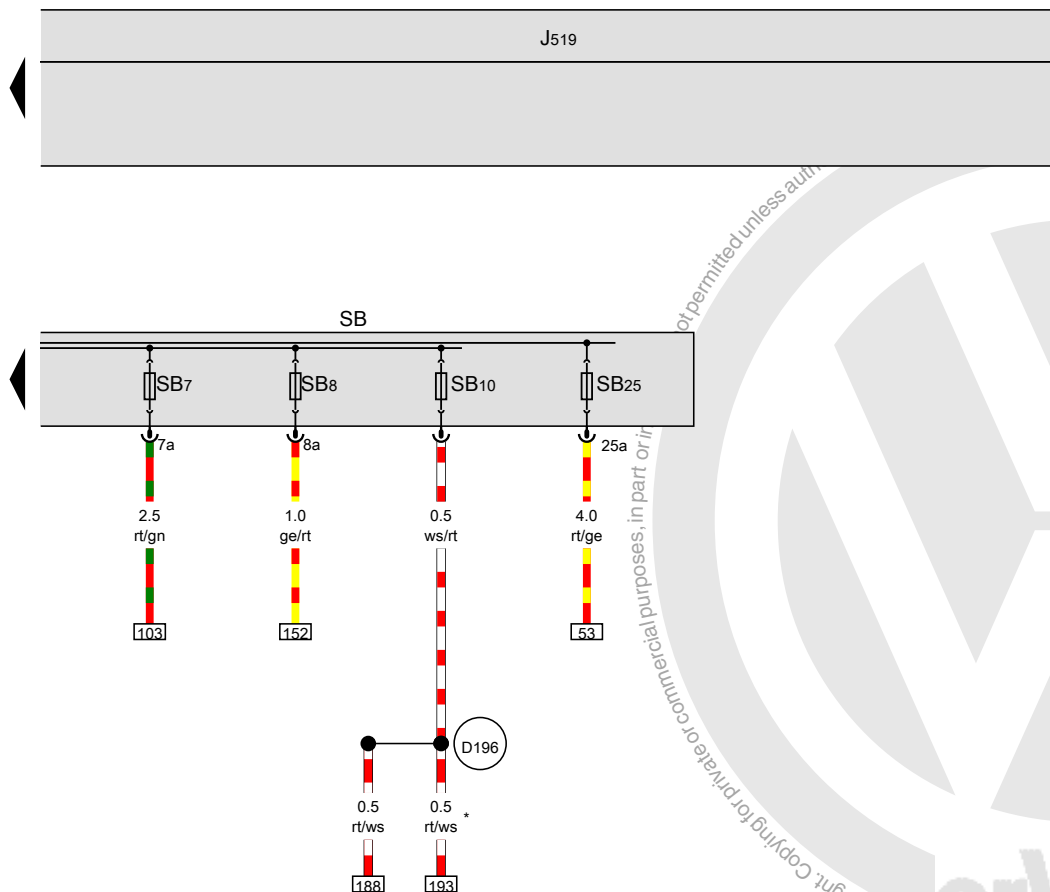
* The color of the wires depends on vehicle equipment



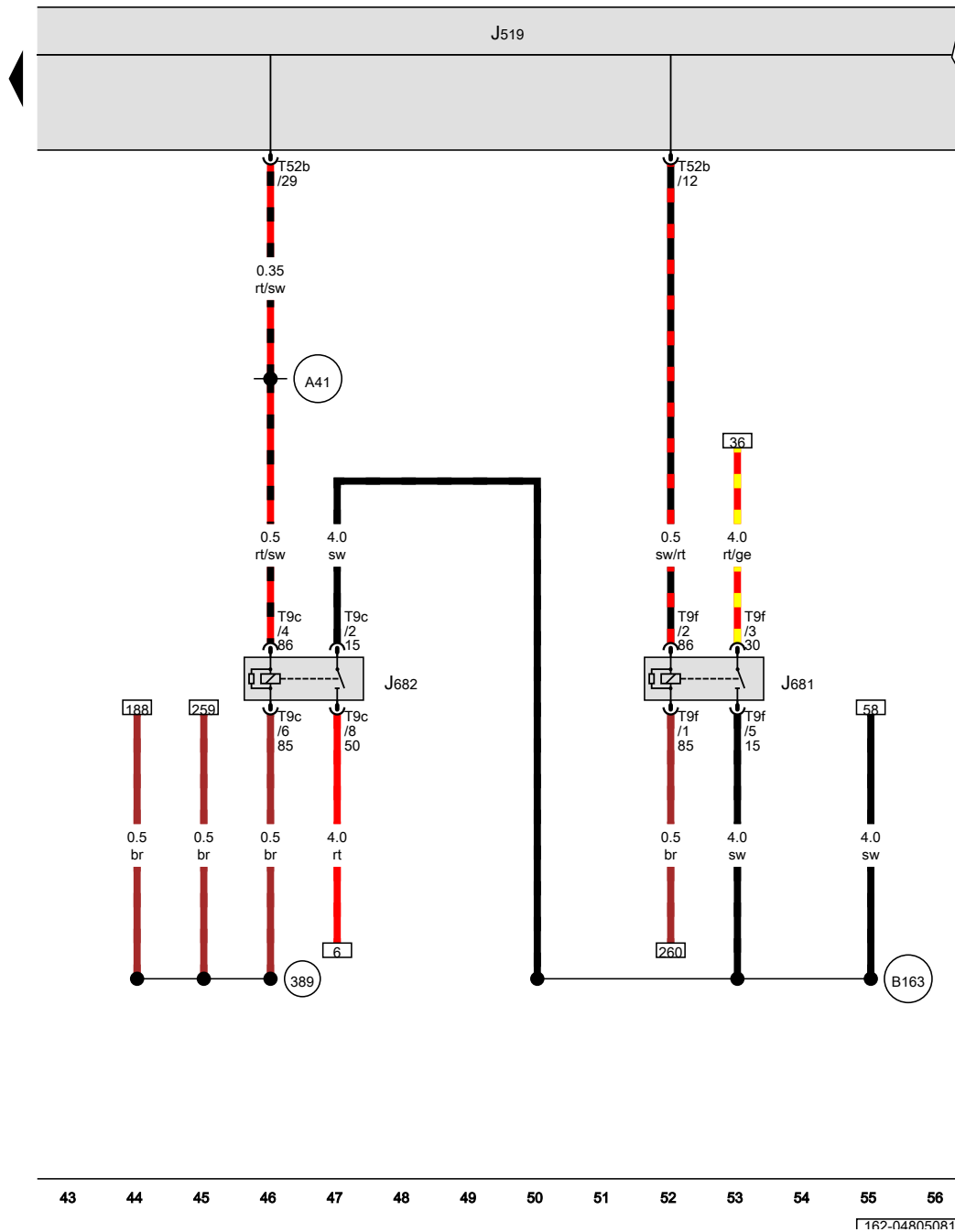
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Vehicle electrical control module system, Fuse panel B

- J519 Vehicle electrical control module system
- SB Fuse panel B
- SB7 Fuse 7 (on fuse panel B)
- SB8 Fuse 8 (on fuse panel B)
- SB10 Fuse 10 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)
- D196 Connection 87a (in engine pre-wiring harness) 2
- * Only for vehicles with a manual transmission



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Vehicle electrical control module system, Terminal 15 power supply relay 2, Terminal 50 power supply relay

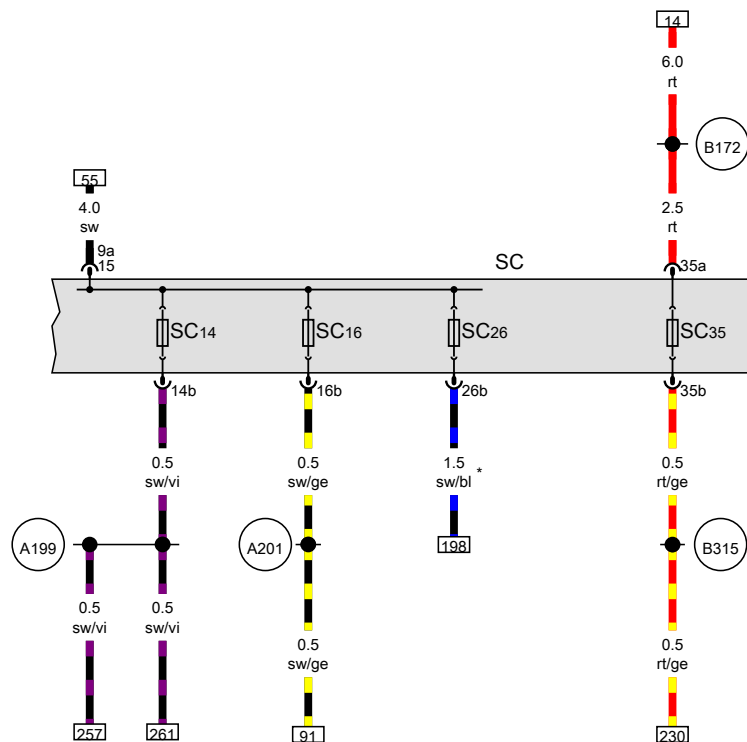
J519 Vehicle electrical control module system
 J681 Terminal 15 power supply relay 2
 J682 Terminal 50 power supply relay
 T9c 9-pin connector
 T9f 9-pin connector
 T52b 52-pin connector

389 Ground connection 24 (in main wiring harness)
 A41 Positive connection (50) (in instrument panel wiring harness)
 B163 Positive connection 1 (15) (in interior wiring harness)

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Fuse panel C

- SC Fuse panel C
- SC14 Fuse 14 (on fuse panel C)
- SC16 Fuse 16 (on fuse panel C)
- SC26 Fuse 26 (on fuse panel C)
- SC35 Fuse 35 (on fuse panel C)
- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- A201 Positive connection 6 (15a) (in instrument panel wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B315 Positive connection 1 (30a) (in main wiring harness)
- * Depending on equipment



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

57 58 59 60 61 62 63 64 65 66 67 68 69 70

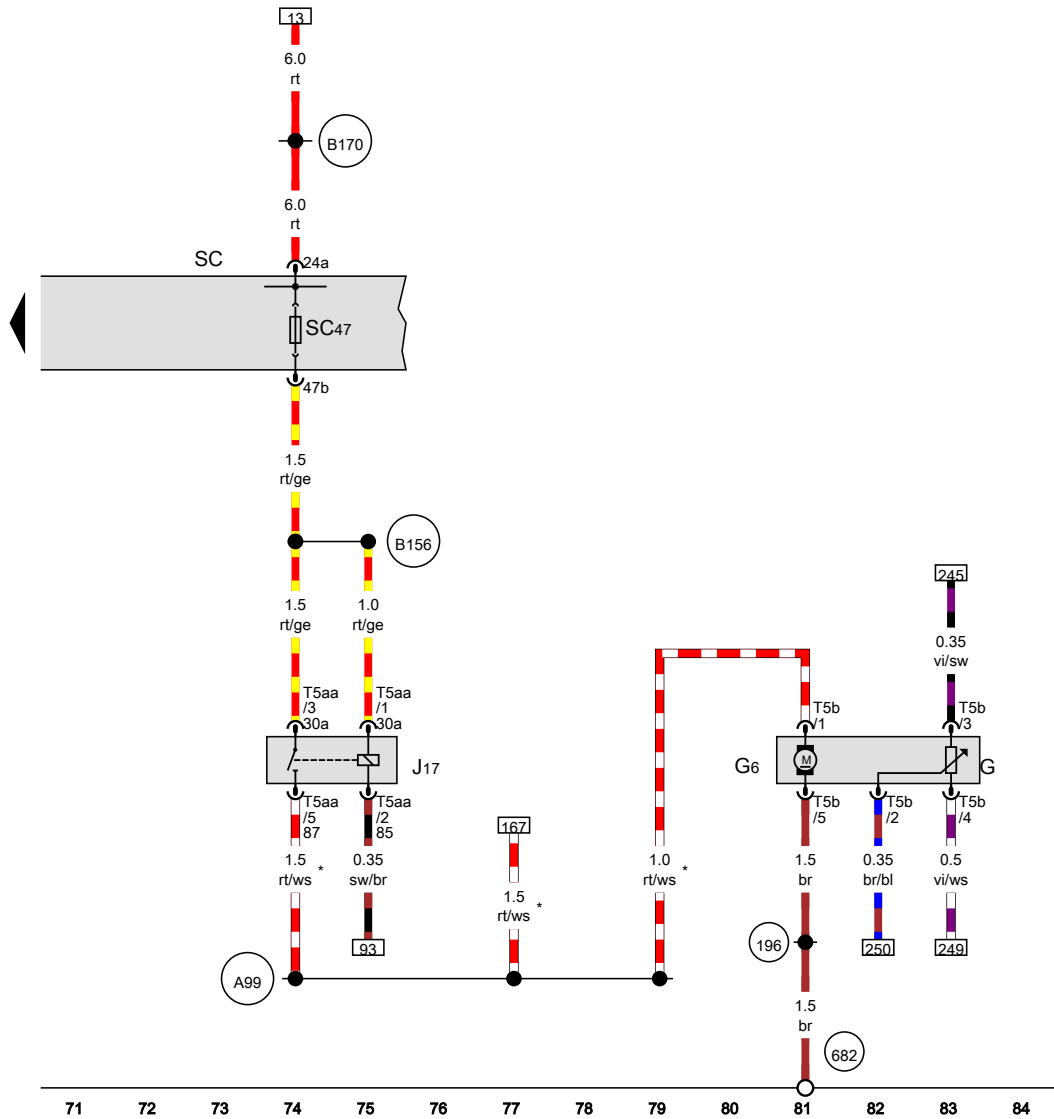
162-048060814

Fuel level sensor, Transfer fuel pump, Fuel pump relay, Fuse panel C

- G Fuel level sensor
- G6 Transfer fuel pump
- J17 Fuel pump relay
- SC Fuse panel C
- SC47 Fuse 47 (on fuse panel C)
- T5aa 5-pin connector
- T5b 5-pin connector

- 196 Ground connection 3 (in rear wiring harness)
- 682 Ground connection 2 in right rear side panel
- A99 Connection 87 (in instrument panel wiring harness) 1
- B156 Positive connection (30a) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- * The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

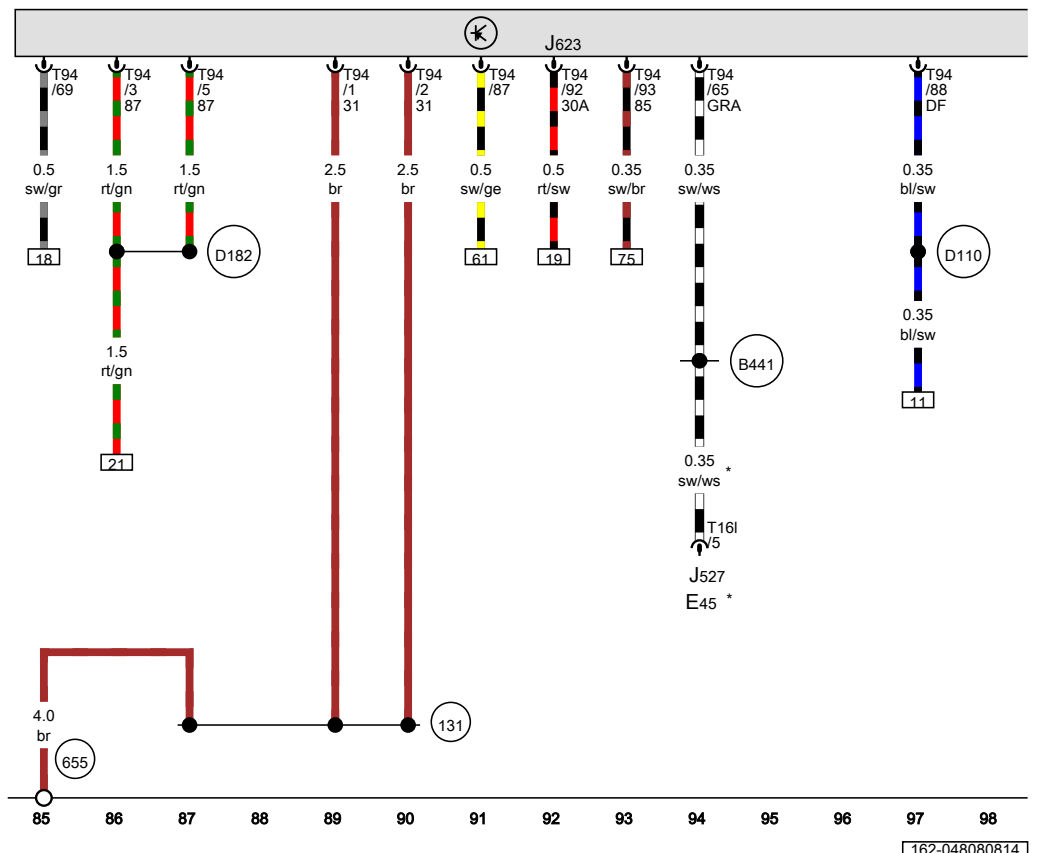


16P-048070R14

Engine control module

- E45 Cruise control switch
- J527 Steering column electronics control module
- J623 Engine control module
- T161 16-pin connector
- T94 94-pin connector
- 131 Ground connection 2 (in engine compartment wiring harness)
- 655 Ground connection on left headlamp
- B441 Cruise control connection (in main wiring harness)
- D110 Connection 8 (in engine compartment wiring harness)
- D182 Connection 3 (87a) (in engine compartment wiring harness)

* Only for vehicles with cruise control



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

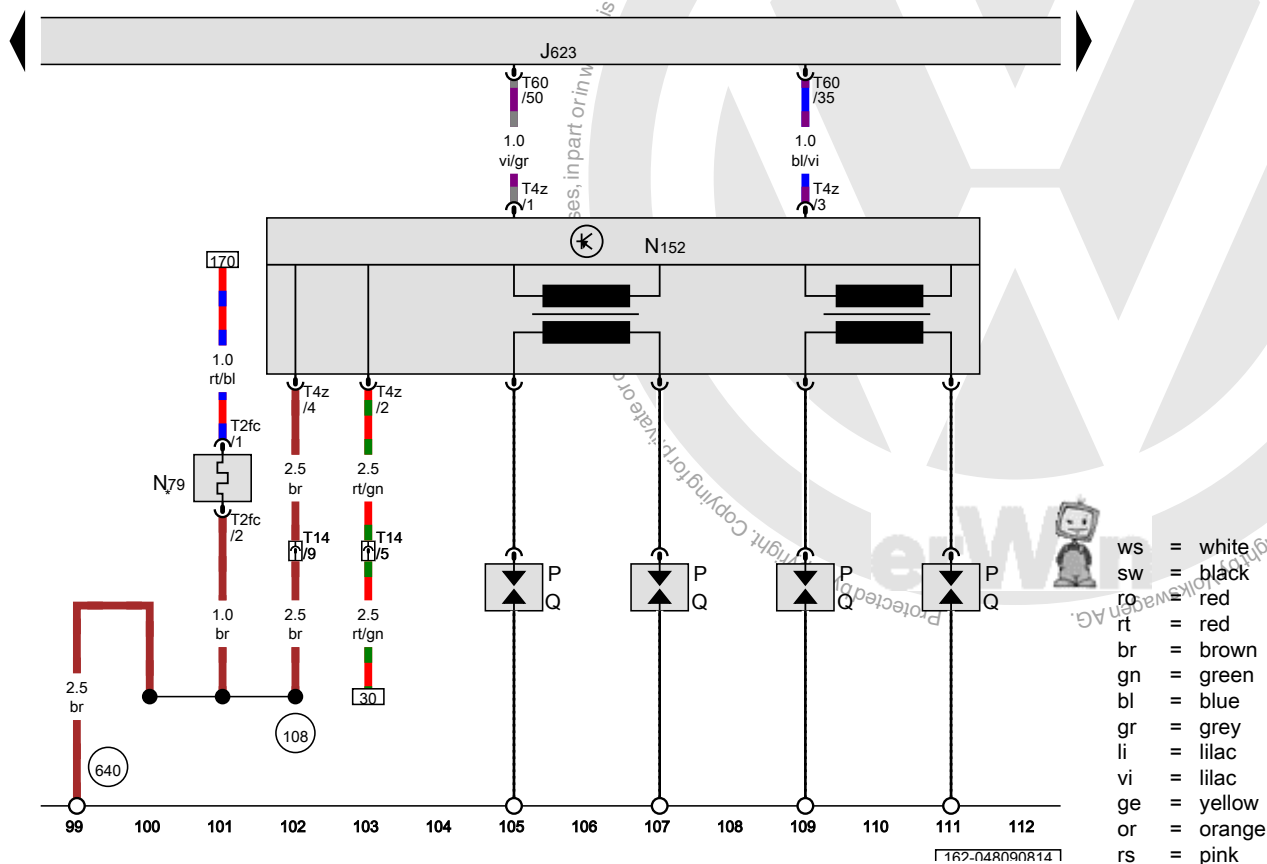
Engine control module, Spark plug connectors, Spark plugs

- J623 Engine control module
- N79 Positive crankcase ventilation heating element
- N152 Ignition coil
- P Spark plug connectors
- Q Spark plugs
- T2fc Double connector
- T4z 4-pin connector
- T14 14-pin connector, near the battery
- T60 60-pin connector

108 Ground connection 2 (in left front wiring harness)

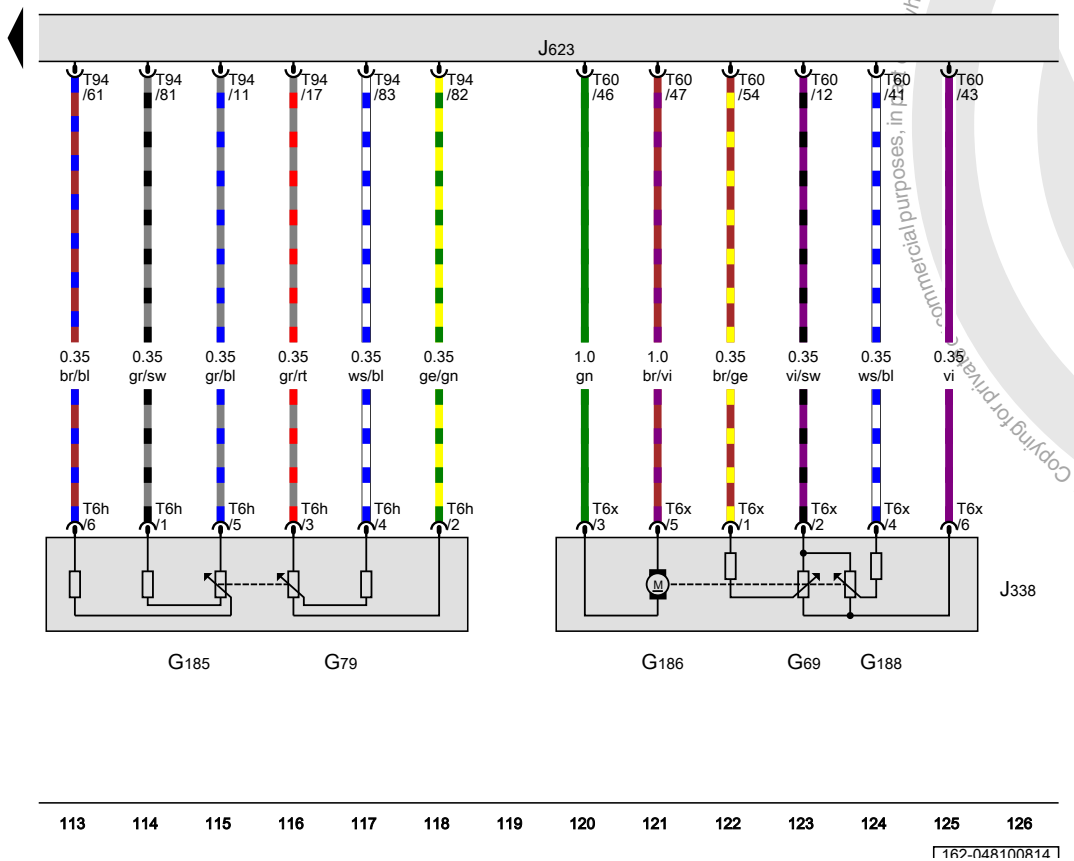
640 Ground connection 2 in engine compartment, left

Only for countries with cold climates



Accelerator pedal position sensor, Accelerator pedal position sensor 2, EPC throttle drive, Throttle valve control module, Engine control module

- G69 Throttle position sensor
- G79 Accelerator pedal position sensor
- G185 Accelerator pedal position sensor 2
- G186 EPC throttle drive
- G188 EPC throttle drive angle sensor 2
- J338 Throttle valve control module
- J623 Engine control module
- T6h 6-pin connector
- T6x 6-pin connector
- T60 60-pin connector
- T94 94-pin connector

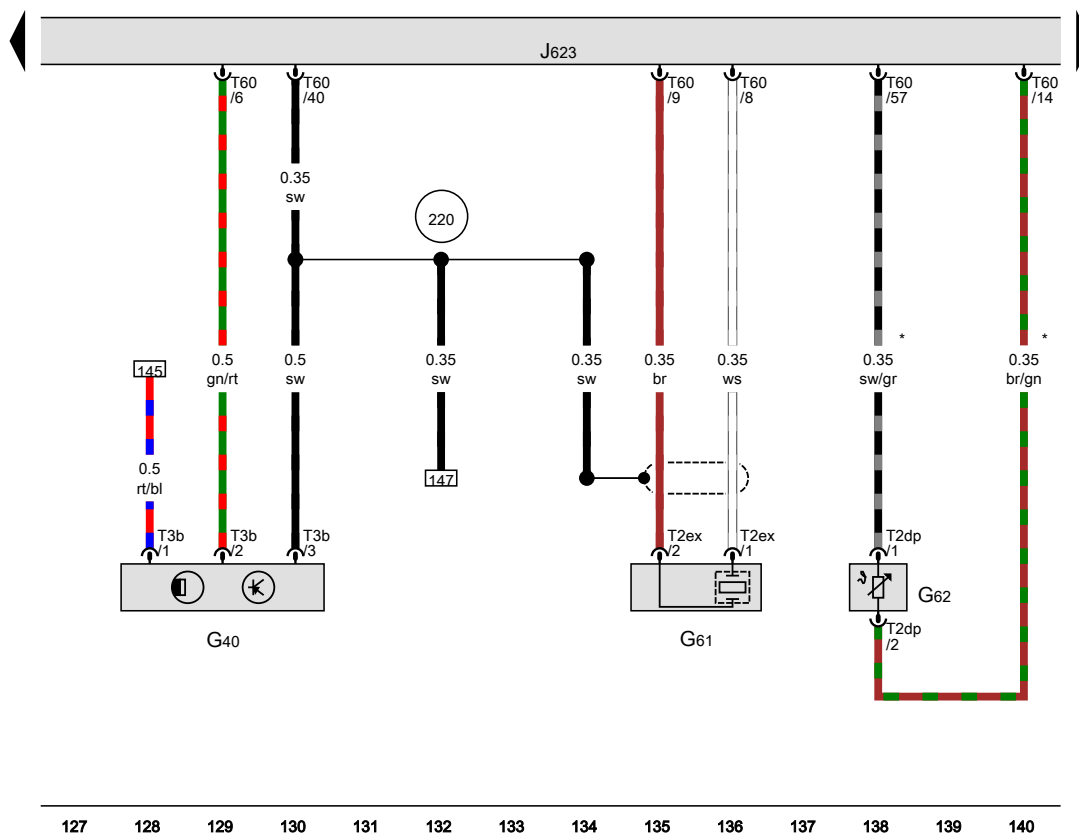


Camshaft position sensor, Knock sensor 1, Engine coolant temperature sensor, Engine control module

- G40 Camshaft position sensor
- G61 Knock sensor 1
- G62 Engine coolant temperature sensor
- J623 Engine control module
- T2dp Double connector
- T2ex Double connector
- T3b 3-pin connector
- T60 60-pin connector

220 Sensor ground connection (in engine wiring harness)

* The color of the wires depends on vehicle equipment



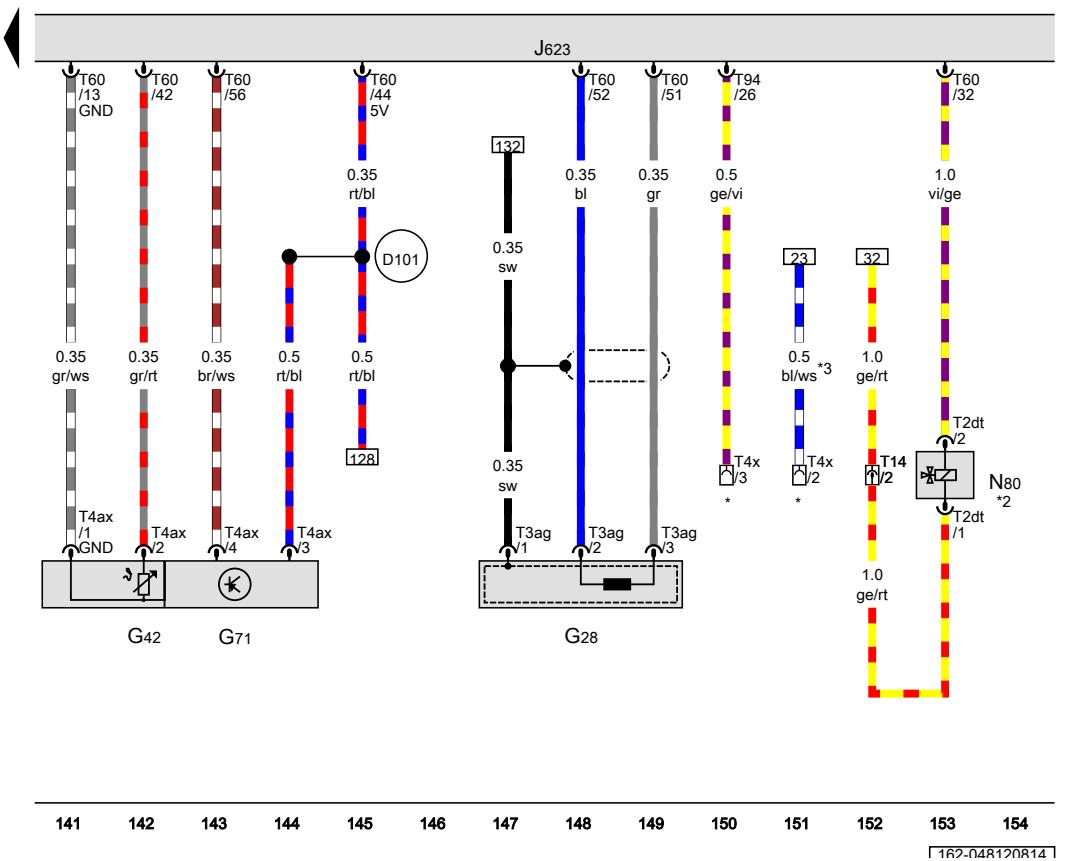
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Engine speed sensor, Intake air temperature sensor,
Manifold absolute pressure sensor, Engine control module,
EVAP canister purge regulator valve 1

- G28 Engine speed sensor
- G42 Intake air temperature sensor
- G71 Manifold absolute pressure sensor
- J623 Engine control module
- N80 EVAP canister purge regulator valve 1
- T2dt Double connector
- T3ag 3-pin connector
- T4ax 4-pin connector
- T4x 4-pin connector
- T14 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

D101 Connection 1 (in engine compartment wiring harness)

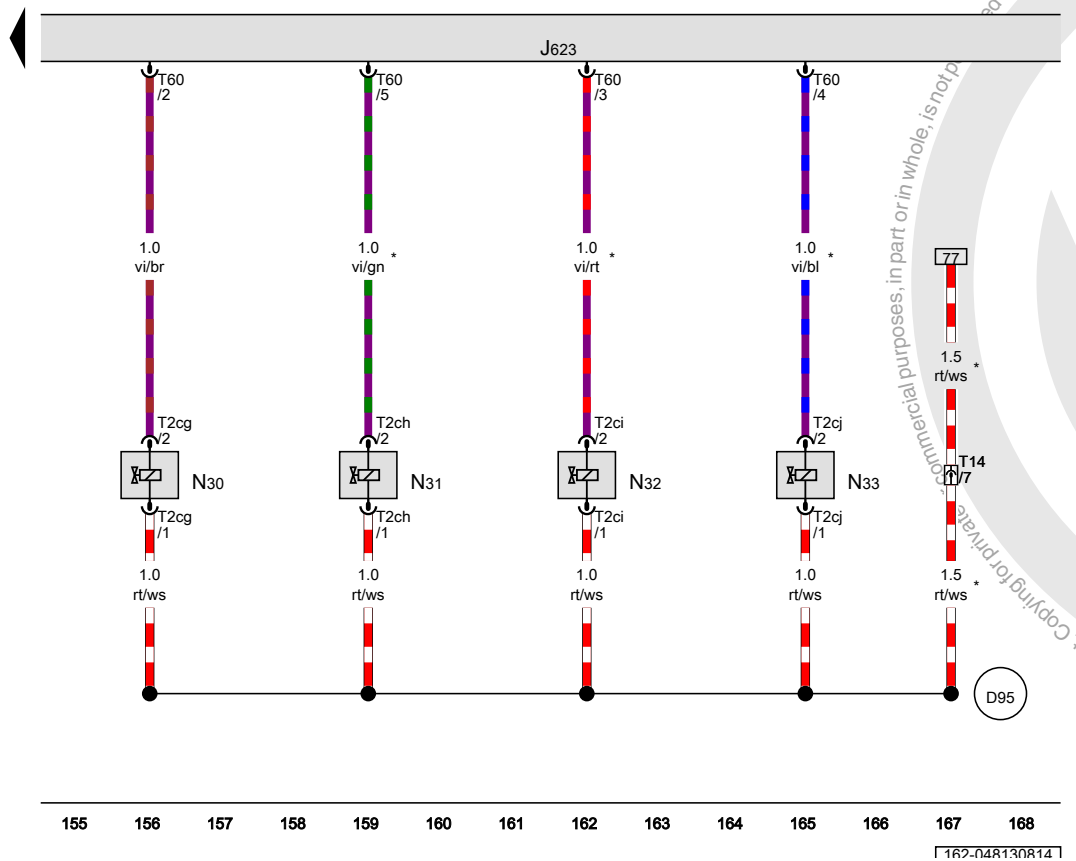
- * Coolant fan connection
- *2 Depending on equipment
- *3 The color of the wires depends on vehicle equipment



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

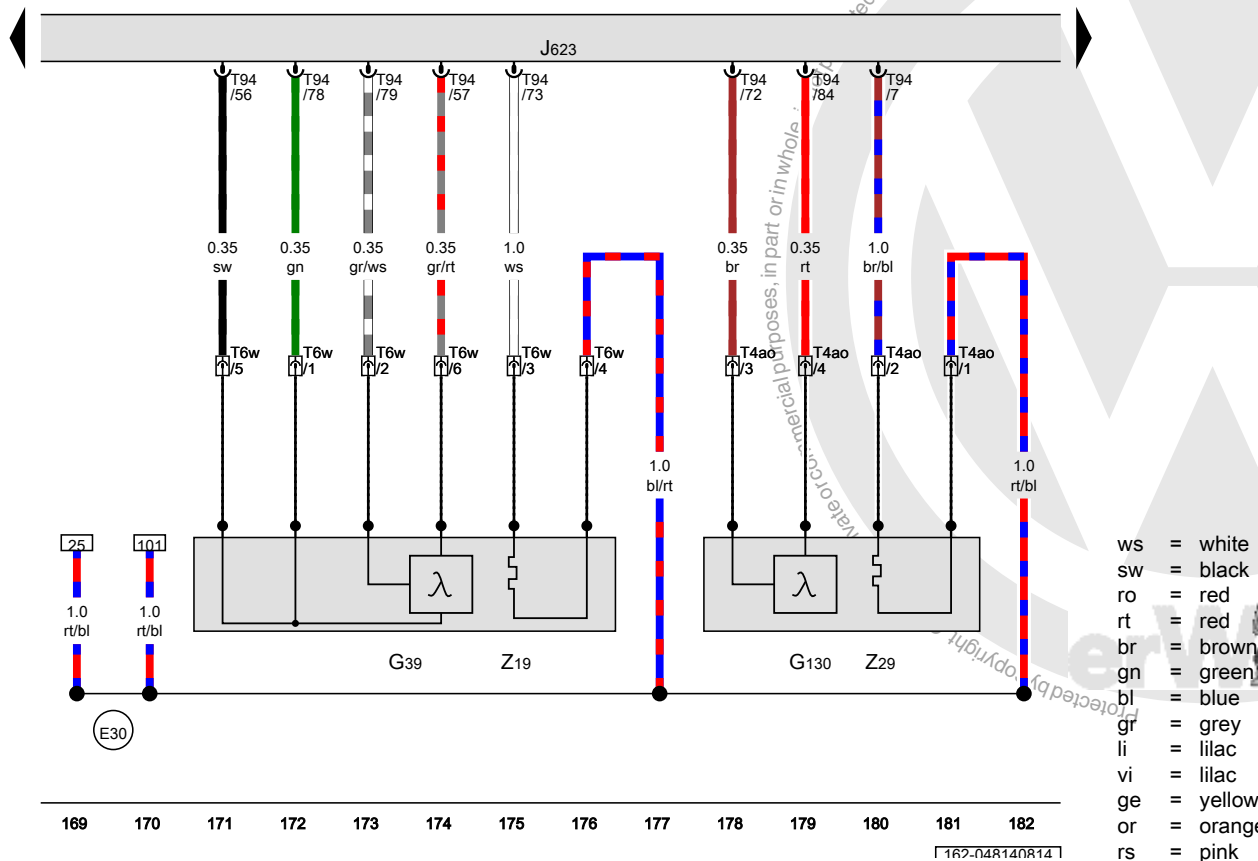
Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector

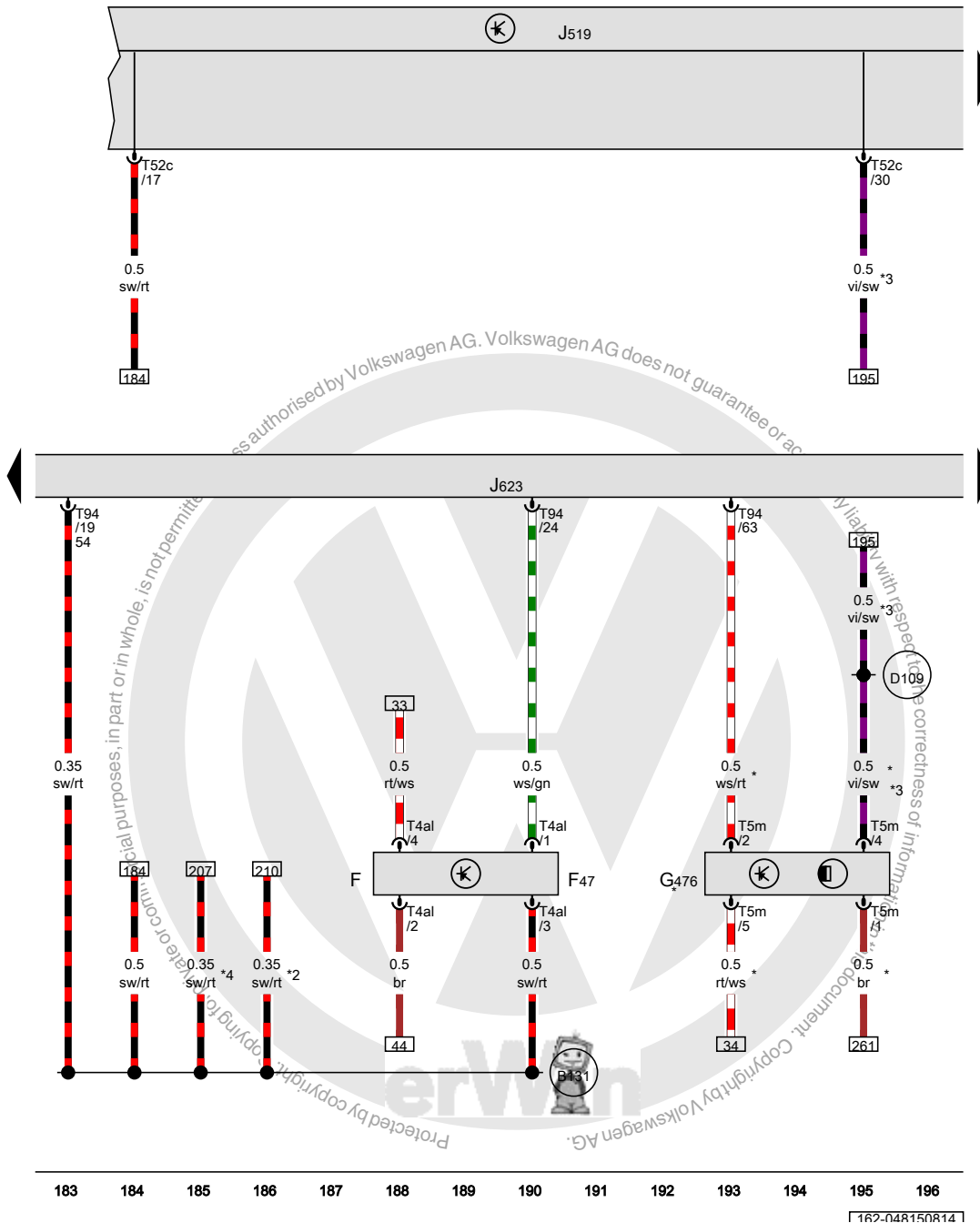
- J623 Engine control module
- N30 Cylinder 1 fuel injector
- N31 Cylinder 2 fuel injector
- N32 Cylinder 3 fuel injector
- N33 Cylinder 4 fuel injector
- T2cg Double connector
- T2ch Double connector
- T2ci Double connector
- T2cj Double connector
- T14 14-pin connector, near the battery
- T60 60-pin connector
- D95 Injector connection (in engine compartment wiring harness)
- * The color of the wires depends on vehicle equipment



Heated oxygen sensor, Oxygen sensor after three way catalytic converter, Engine control module, Oxygen sensor heater, Heater for oxygen sensor 1 after catalytic converter

- G39 Heated oxygen sensor
- G130 Oxygen sensor after three way catalytic converter
- J623 Engine control module
- T4ao 4-pin connector
- T6w 6-pin connector
- T94 94-pin connector
- Z19 Oxygen sensor heater
- Z29 Heater for oxygen sensor 1 after catalytic converter
- E30 Connection 87a (in engine wiring harness)





Brake lamp switch, Brake pedal switch, Clutch position sensor, Vehicle electrical control module system, Engine control module

- F Brake lamp switch
- F47 Brake pedal switch
- G476 Clutch position sensor
- J519 Vehicle electrical control module system
- J623 Engine control module
- T4al 4-pin connector
- T5m 5-pin connector
- T52c 52-pin connector
- T94 94-pin connector

B131 Connection 54 (in interior wiring harness)

D109 Connection 7 (in engine compartment wiring harness)

- * Only for vehicles with a manual transmission
- *2 Only for vehicles with ABS and ESP
- *3 The color of the wires depends on vehicle equipment
- *4 Only for vehicles with ABS without ESP

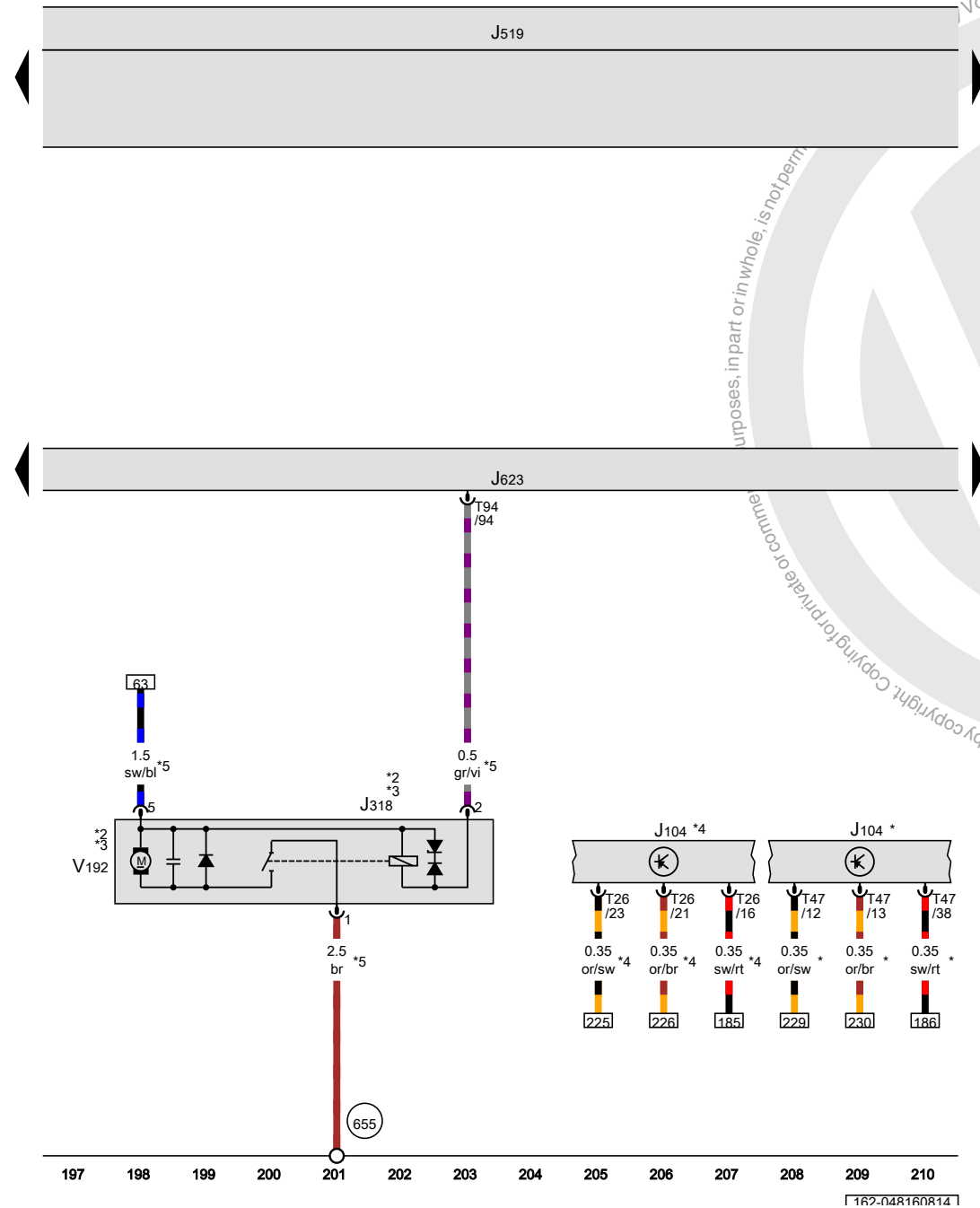
ws = white
 sw = black
 ro = red
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 gn = green
 bl = blue
 gr = grey
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 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Vacuum pump relay, Vehicle electrical control module system, Engine control module, Brake system vacuum pump

- J104 ABS control module
- J318 Vacuum pump relay
- J519 Vehicle electrical control module system
- J623 Engine control module
- T26 26-pin connector
- T47 47-pin connector
- T94 94-pin connector
- V192 Brake system vacuum pump

655 Ground connection on left headlamp

- * Only for vehicles with ABS and ESP
- *2 Only for vehicles with automatic transmission
- *3 Only for vehicles with ABS
- *4 Only for vehicles with ABS without ESP
- *5 Depending on equipment



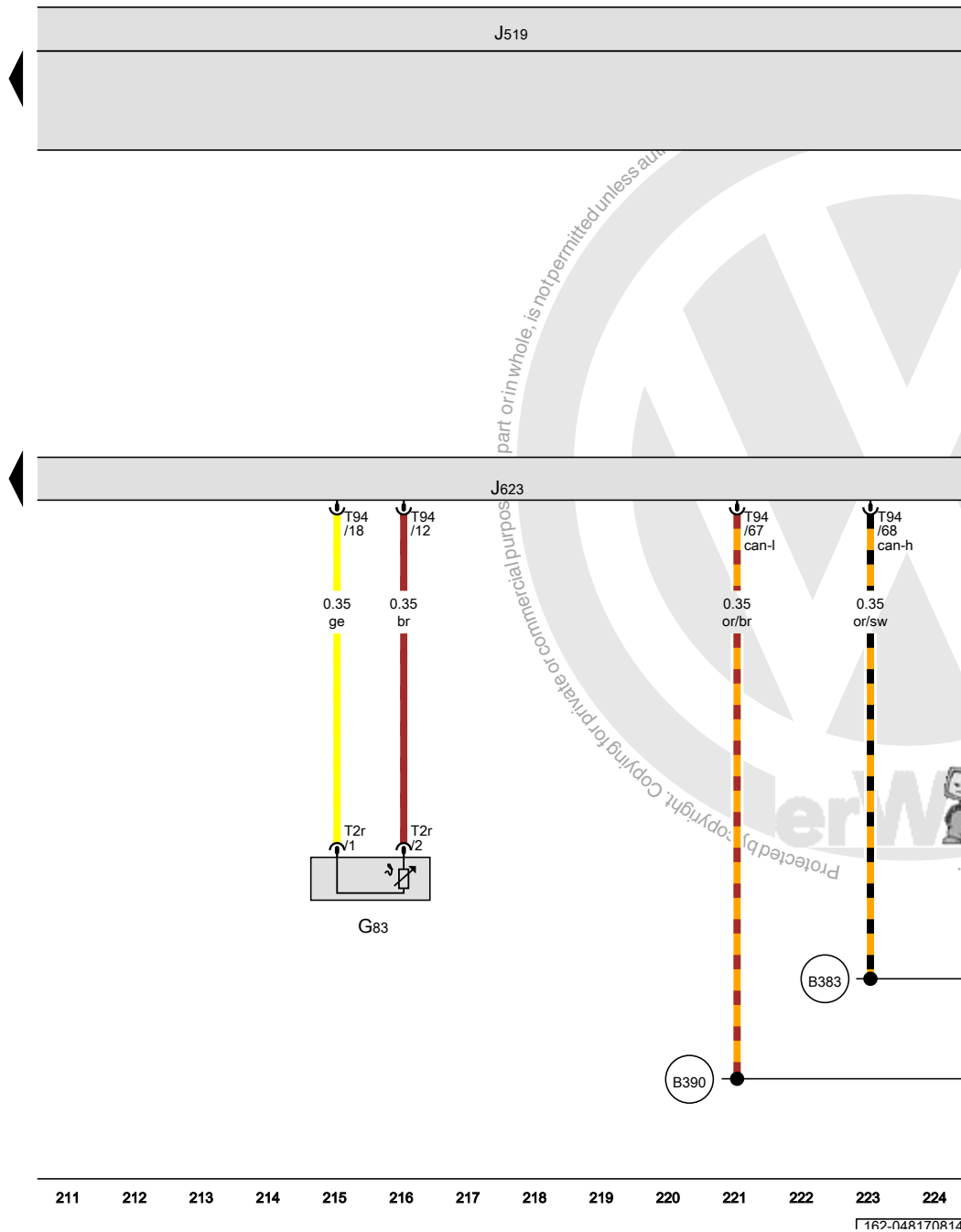
- ws = white
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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Engine coolant temperature sensor on radiator outlet,
Vehicle electrical control module system, Engine control
module

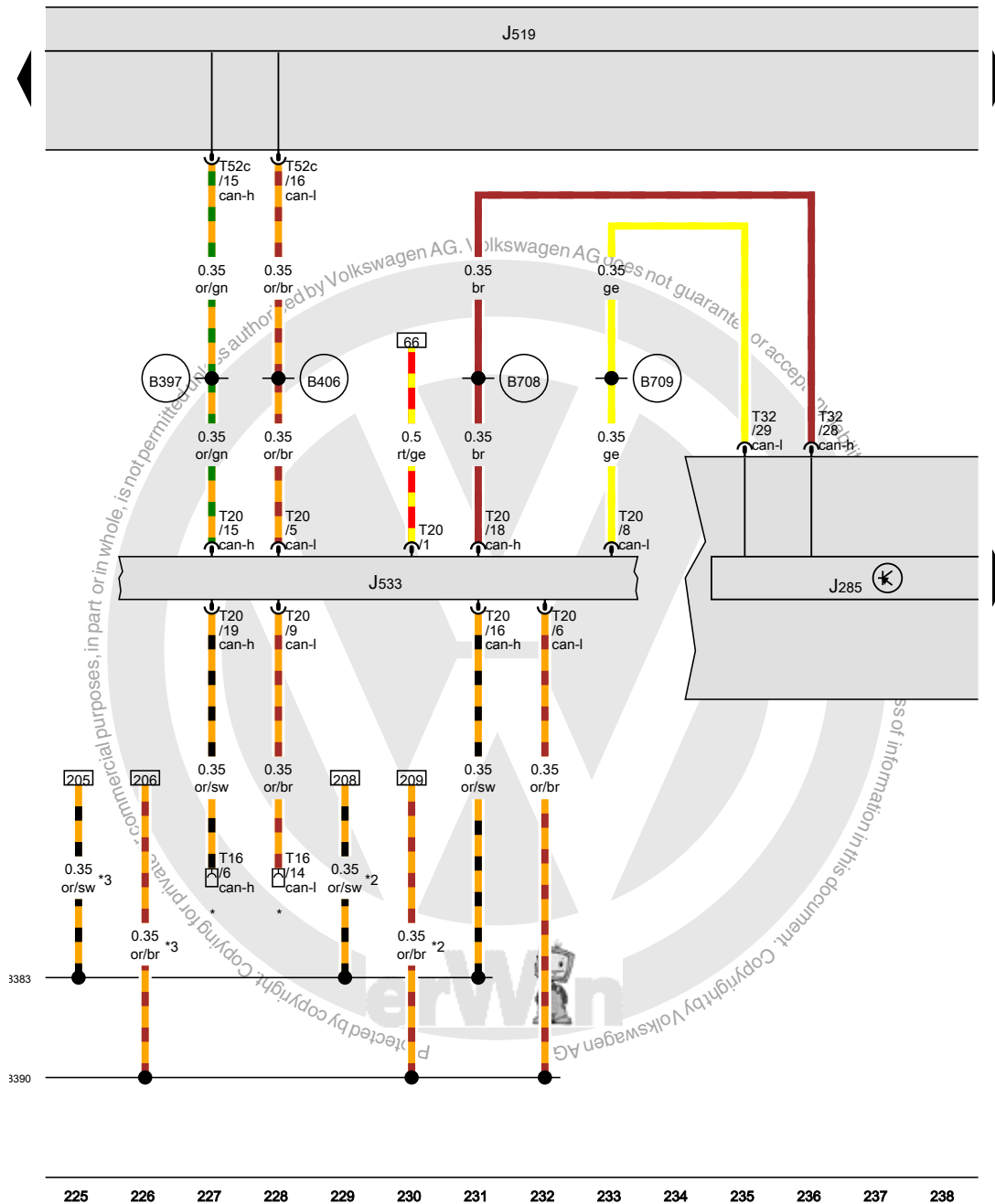
- G83 Engine coolant temperature sensor on radiator outlet
- J519 Vehicle electrical control module system
- J623 Engine control module
- T2r Double connector
- T94 94-pin connector

B383 Powertrain CAN bus high connection 1 (in main wiring harness)

B390 Powertrain CAN bus low connection 1 (in main wiring harness)



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

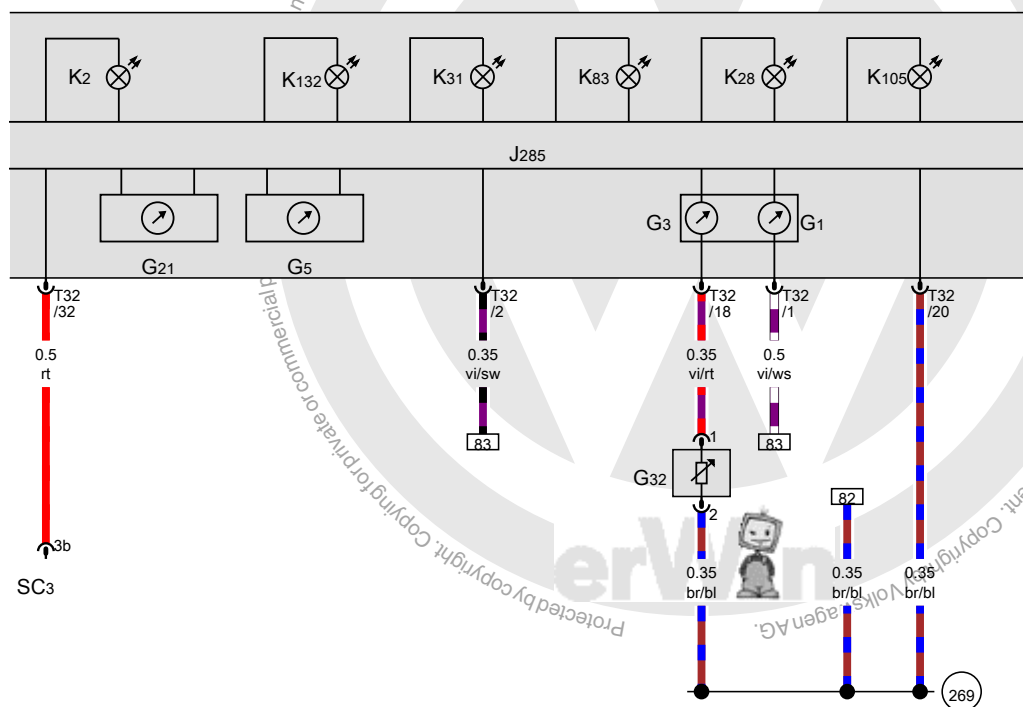
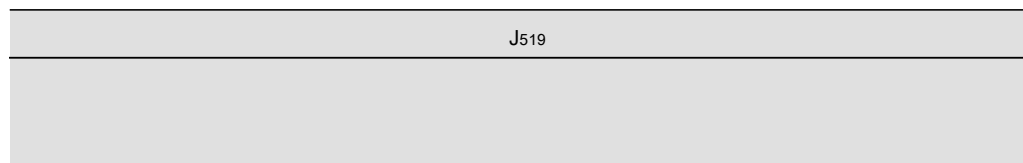
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- T16 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T52c 52-pin connector

- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B708 Instrument cluster CAN bus high connection 1 (in main wiring harness)
- B709 Instrument cluster CAN bus low connection 1 (in main wiring harness)

- * Diagnostic connector
- *2 Only for vehicles with ABS and ESP
- *3 Only for vehicles with ABS without ESP

Fuel gauge, Engine coolant temperature gauge, Tachometer, Speedometer, Instrument cluster control module, Vehicle electrical control module system, Generator indicator lamp, Engine coolant level/temperature indicator lamp, Cruise control indicator lamp, Low fuel level indicator lamp, Electronic power control malfunction indicator lamp

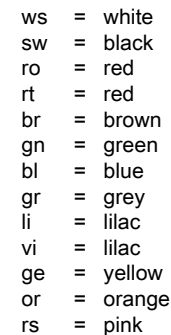
- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine coolant level sensor
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- K2 Generator indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K31 Cruise control indicator lamp
- K83 Malfunction indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- SC3 Fuse 3 (on fuse panel C)
- T32 32-pin connector
- 269 Sensor ground connection 1 (in instrument panel wiring harness)



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

239 240 241 242 243 244 245 246 247 248 249 250 251 252

167-048190R14



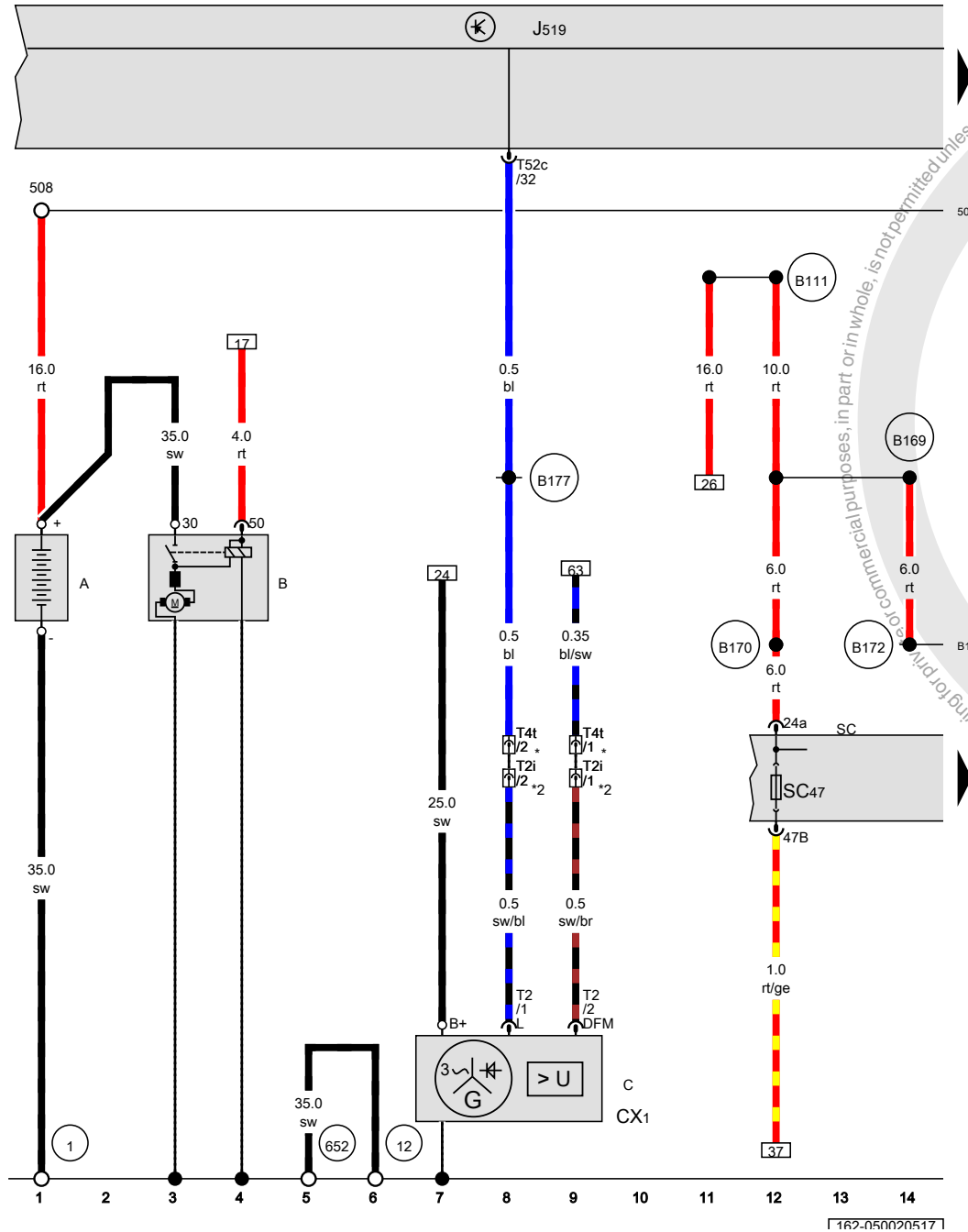
| | |
|-----|--|
| 132 | Ground connection 3 (in engine compartment wiring harness) |
| 367 | Ground connection 2 (in main wiring harness) |
| 376 | Ground connection 11 (in main wiring harness) |
| 605 | Ground connection on upper steering column |
| 655 | Ground connection on left headlamp |
| * | Only for vehicles with a manual transmission |

2.0L Gasoline Engine , CCTA,(AW1)

From March 2011



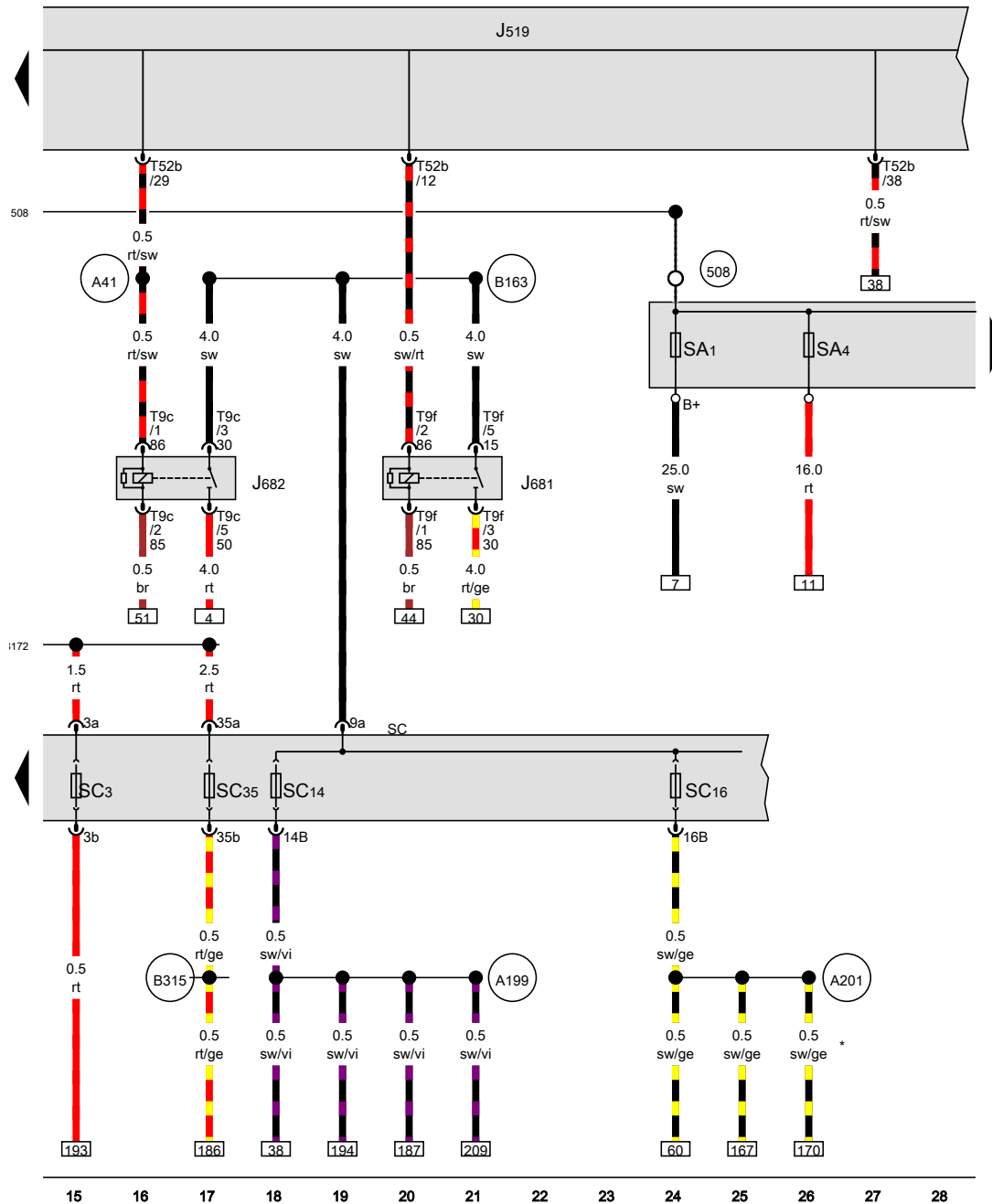
**Battery, Starter, Generator, Vehicle Electrical System
Control Module, Fuse Panel C**



- A Battery
- B Starter
- C Generator
- CX1 Generator with Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SC Fuse Panel C
- SC47 Fuse 47 (On Fuse Panel C)
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T52c 52-Pin Connector
- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)
- * For Vehicles with A/C System
- *2 For Vehicles Without an A/C System

ws = white
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 or = orange
 rs = pink

162-050020517



Vehicle Electrical System Control Module, Terminal 15 Power Supply Relay 2, Terminal 50 Power Supply Relay, Fuse Panel C

- J519 Vehicle Electrical System Control Module
- J681 Terminal 15 Power Supply Relay 2
- J682 Terminal 50 Power Supply Relay
- SA1 Fuse 1 (On Fuse Panel A)
- SC3 Fuse 3 (On Fuse Panel C)
- SA4 Fuse 4 (On Fuse Panel A)
- SC Fuse Panel C
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- T9c 9-Pin Connector
- T9f 9-Pin Connector
- T52b 52-Pin Connector

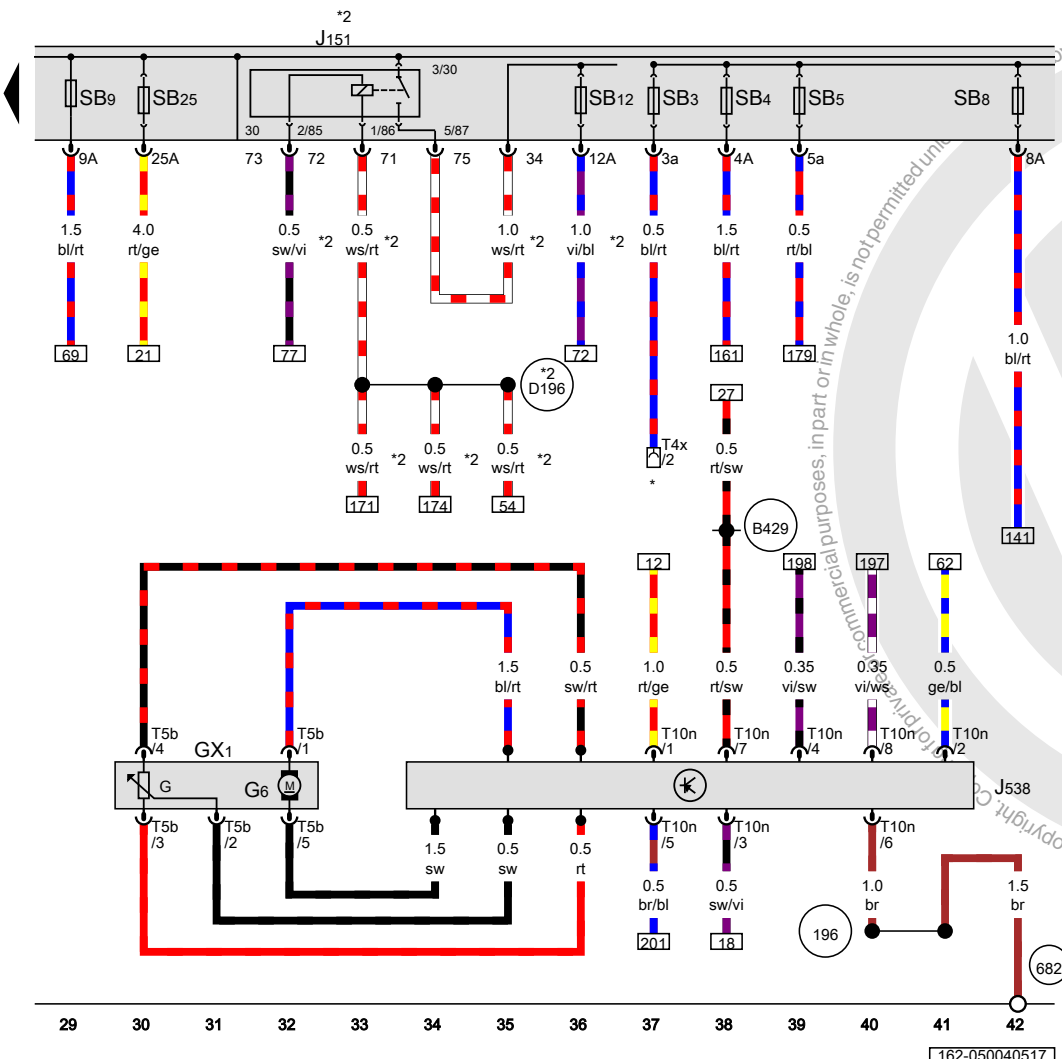
- 508 Terminal 30 Threaded Connection (On E-Box)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- * Depending on Equipment

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- rt = red
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- rs = pink

Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Coolant Circulation Pump Relay, Fuse 25 (On Fuse Panel B)

- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J151 Coolant Circulation Pump Relay
- J538 Fuel Pump Control Module
- SB3 Fuse 3 (On Fuse Panel B)
- SB4 Fuse 4 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB9 Fuse 9 (On Fuse Panel B)
- SB12 Fuse 12 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T4x 4-Pin Connector
- T5b 5-Pin Connector
- T10n 10-Pin Connector

- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- B429 Fuel Pump Relay Connection (in Main Wiring Harness)
- D196 Connection 87A (in Engine Pre-Wiring Harness) 2
- * Radiator Fan Connection
- *2 Running Change



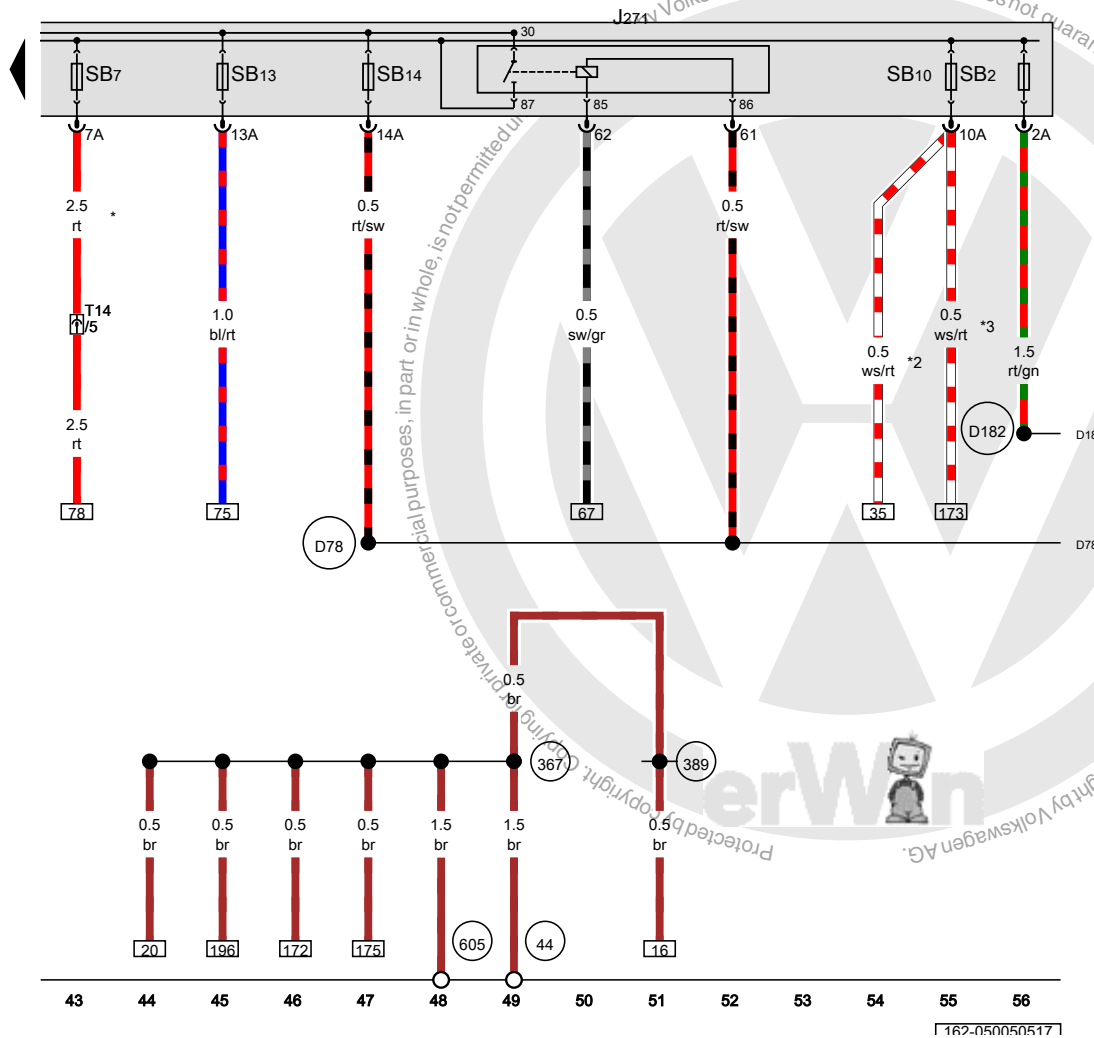
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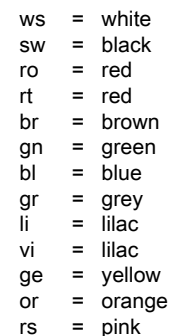
Motronic Engine Control Module Power Supply Relay

- J271 Motronic Engine Control Module Power Supply Relay
- SB2 Fuse 2 (On Fuse Panel B)
- SB7 Fuse 7 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB13 Fuse 13 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- T14 14-Pin Connector

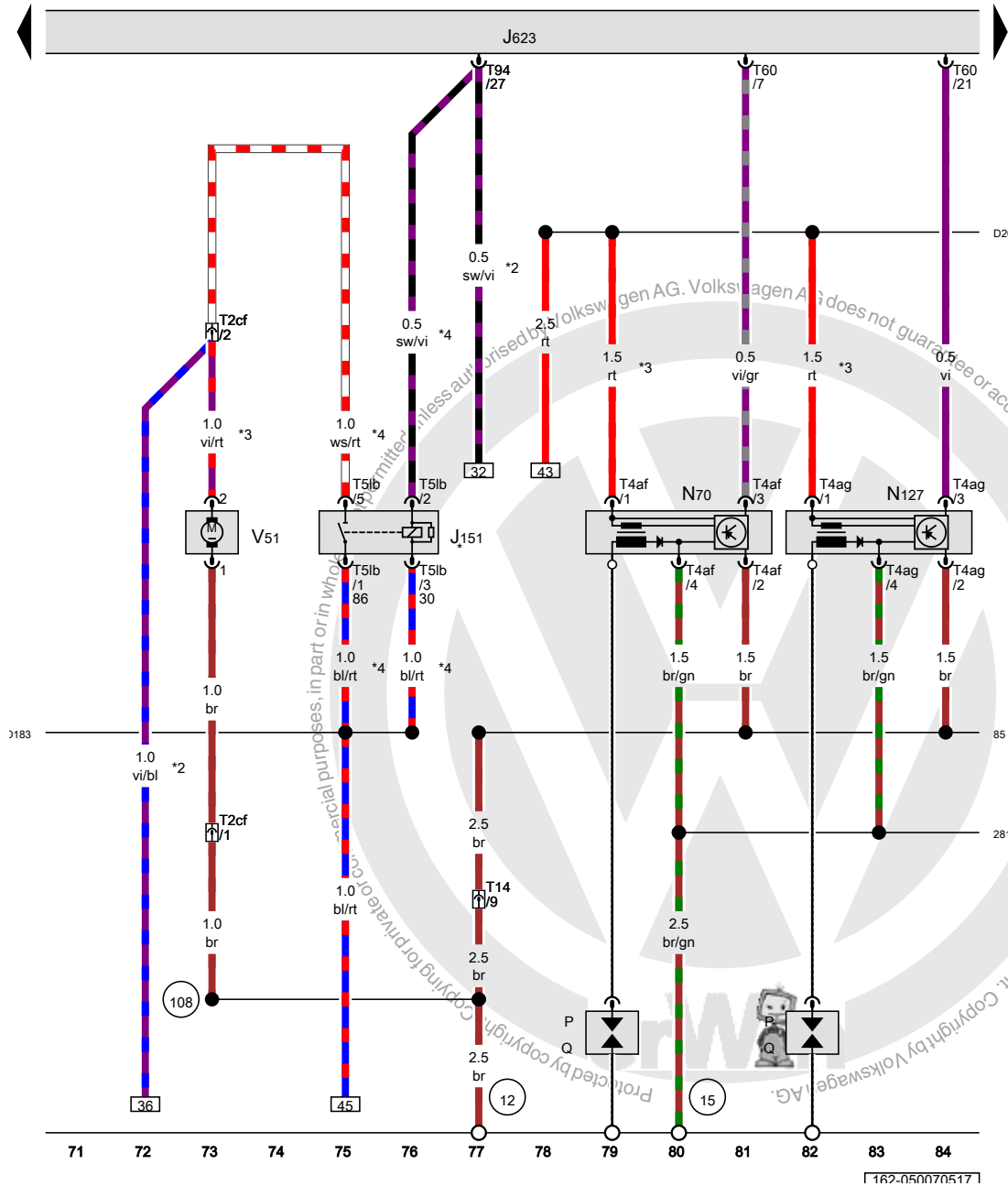
- 44 Ground Connection on A-Pillar, Lower Left
- 367 Ground Connection 2 (in Main Wiring Harness)
- 389 Ground Connection 24 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- D78 Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine Compartment Wiring Harness)

- * The Color of the Wires Depends on Vehicle Equipment
- *2 Running Change
- *3 Depending on Equipment





* For Vehicles with Cruise Control System
*2 The Color of the Wires Depends on Vehicle Equipment



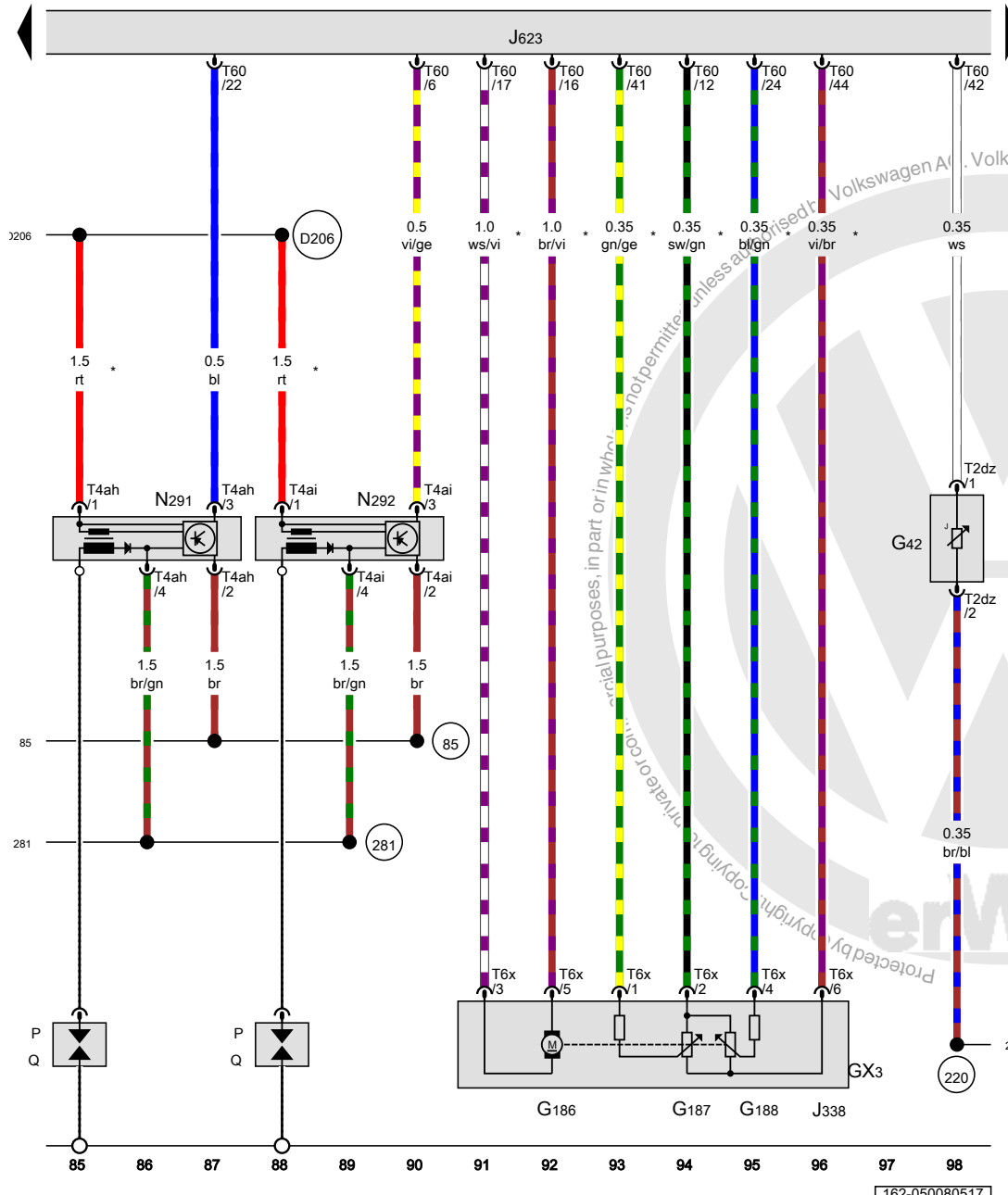
Engine Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Spark Plug Connectors, Spark Plugs, After-Run Coolant Pump

- J151 Coolant Circulation Pump Relay, In the Interior
- J623 Engine Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2cf 2-Pin Connector
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T5lb 5-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- V51 After-Run Coolant Pump

- 12 Ground Connection in Engine Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D183 Connection 4 (87A) (in Engine Compartment Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

- * Optional
- *2 Running Change
- *3 The Color of the Wires Depends on Vehicle Equipment
- *4 Depending on Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



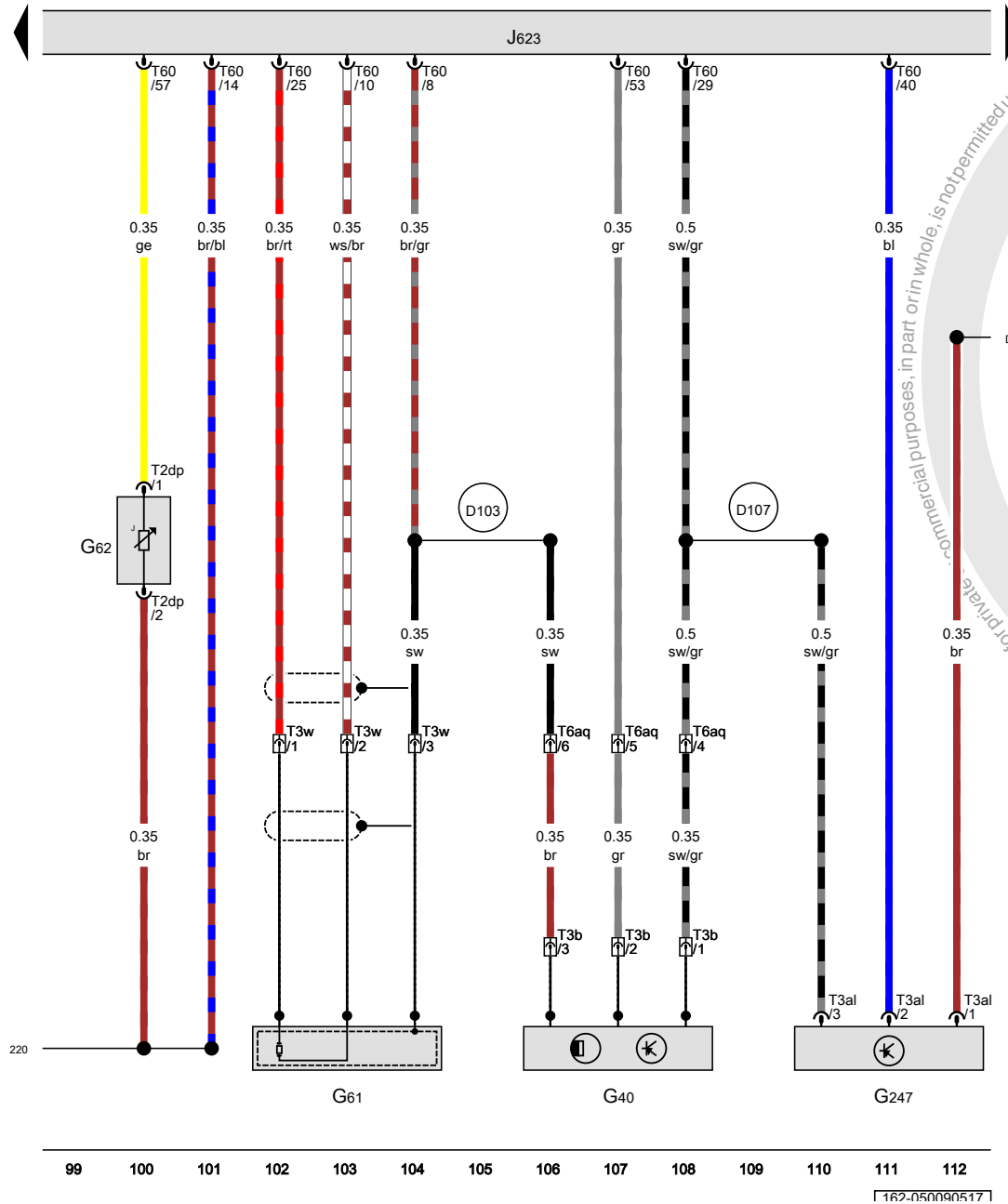
Throttle Valve Control Module, Intake Air Temperature Sensor, Engine Control Module, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors

- GX3 Throttle Valve Control Module
- G42 Intake Air Temperature Sensor
- G186 EPC Throttle Drive
- G187 EPC Throttle Drive Angle Sensor 1
- G188 EPC Throttle Drive Angle Sensor 2
- J338 Throttle Valve Control Module
- J623 Engine Control Module
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2dz 2-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T6x 6-Pin Connector
- T60 60-Pin Connector

- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 220 Sensor Ground Connection (in Engine Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4
- * The Color of the Wires Depends on Vehicle Equipment

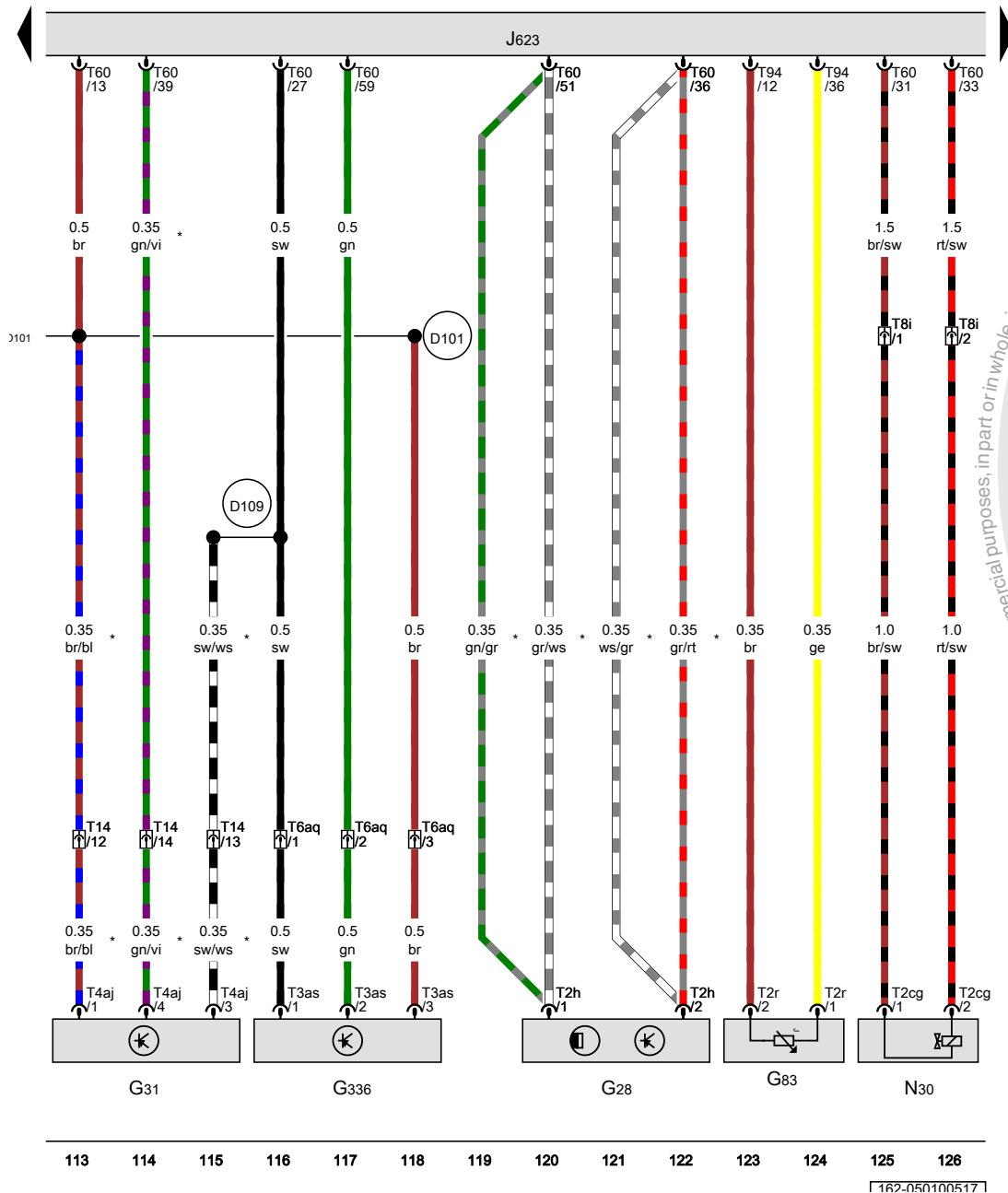
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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Camshaft Position Sensor, Knock Sensor 1, Engine Coolant Temperature Sensor, Engine Control Module



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Engine Speed Sensor, Charge Air Pressure Sensor, Engine Coolant Temperature Sensor on Radiator Outlet, Engine Control Module, Cylinder 1 Fuel Injector



- G28 Engine Speed Sensor
- G31 Charge Air Pressure Sensor
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- G336 Intake Manifold Runner Position Sensor
- J623 Engine Control Module
- N30 Cylinder 1 Fuel Injector
- T2cg 2-Pin Connector
- T2h 2-Pin Connector
- T2r 2-Pin Connector
- T3as 3-Pin Connector
- T4aj 4-Pin Connector
- T6aq 6-Pin Connector
- T8i 8-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector

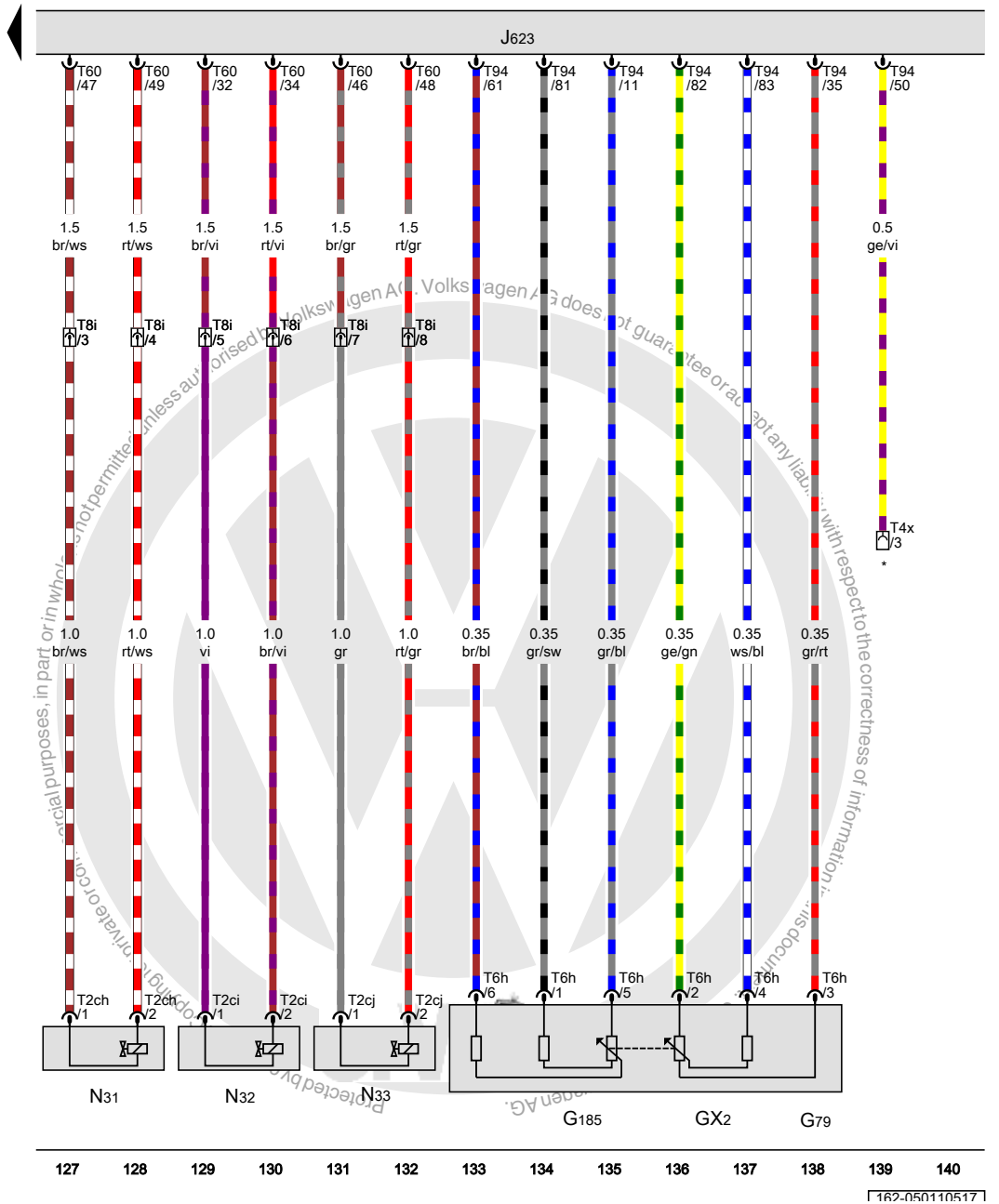
D101 Connection 1 (in Engine Compartment Wiring Harness)

D109 Connection 7 (in Engine Compartment Wiring Harness)

* The Color of the Wires Depends on Vehicle Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
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- rs = pink

Accelerator Pedal Module, Engine Control Module, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector



- GX2 Accelerator Pedal Module
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine Control Module
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T4x 4-Pin Connector
- T6h 6-Pin Connector
- T8i 8-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- * Radiator Fan Connection

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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

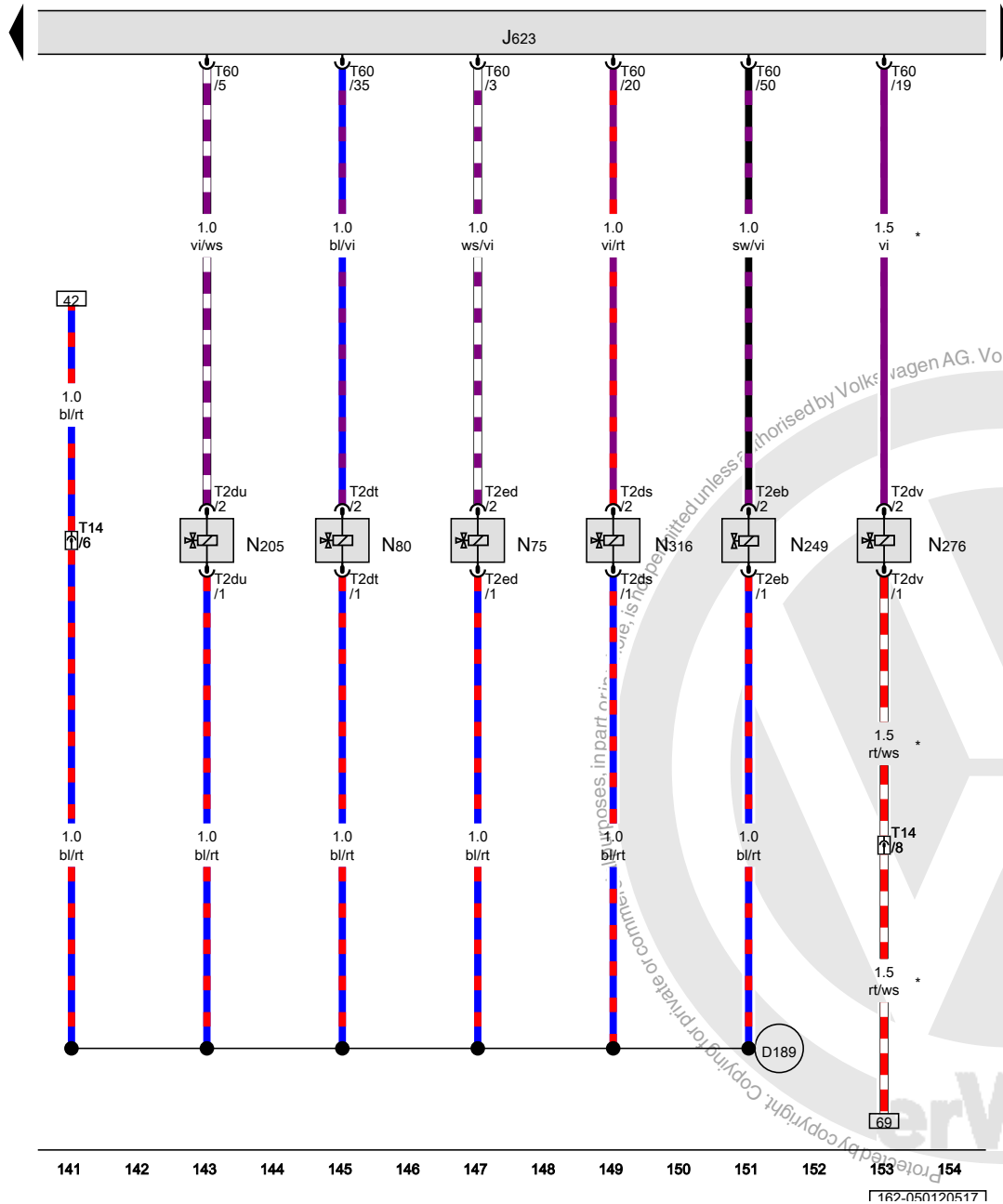
Engine Control Module, EVAP Canister Purge Regulator Valve 1, Camshaft Adjustment Valve 1, Turbocharger Recirculation Valve, Fuel Pressure Regulator Valve, Intake Manifold Runner Control Valve

- J623 Engine Control Module
- N75 Wastegate Bypass Regulator Valve
- N80 EVAP Canister Purge Regulator Valve 1
- N205 Camshaft Adjustment Valve 1
- N249 Turbocharger Recirculation Valve
- N276 Fuel Pressure Regulator Valve
- N316 Intake Manifold Runner Control Valve
- T2ds 2-Pin Connector
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dv 2-Pin Connector
- T2eb 2-Pin Connector
- T2ed 2-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector

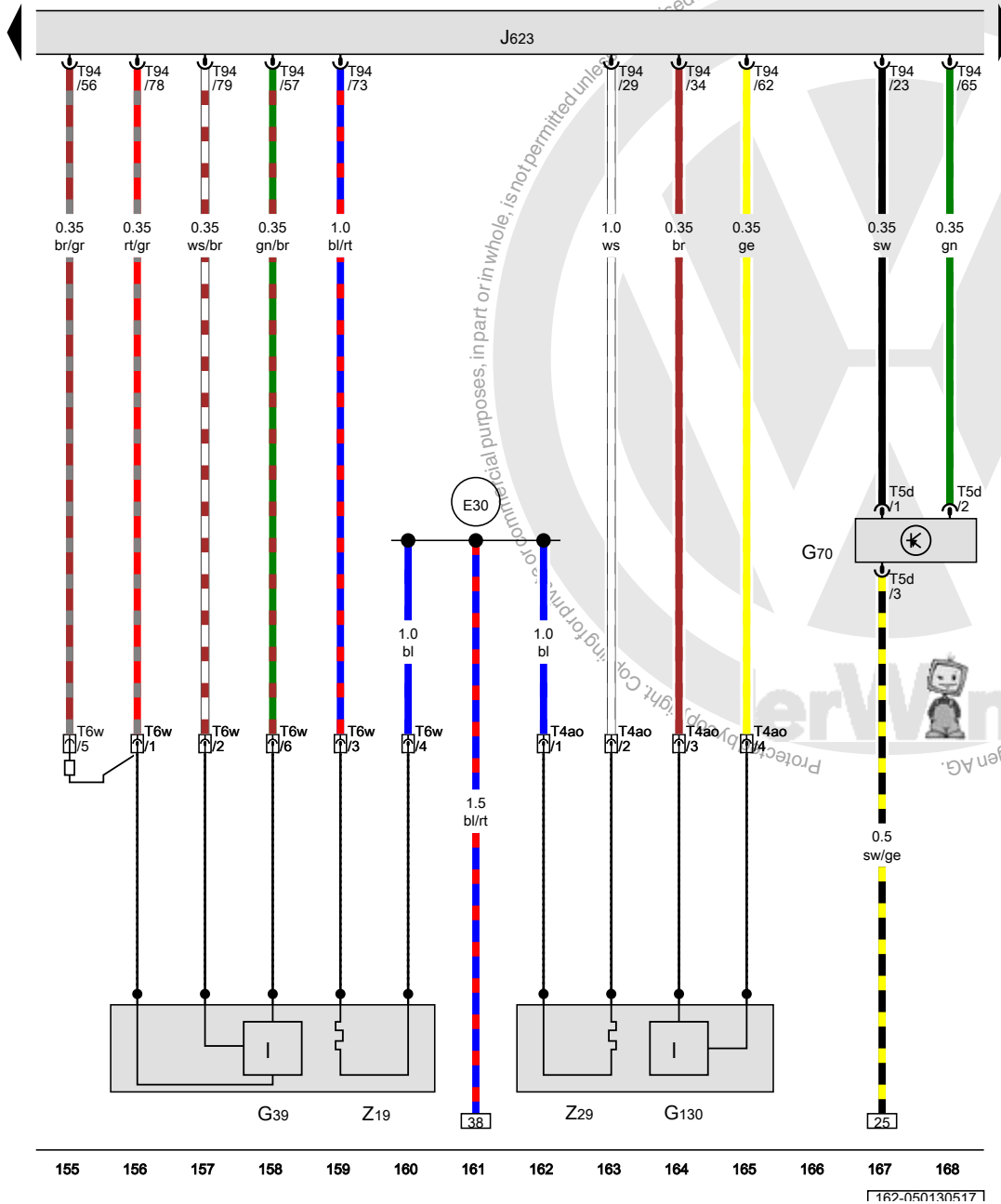
D189 Connection 87A (in Engine Pre-Wiring Harness)

* The Color of the Wires Depends on Vehicle Equipment

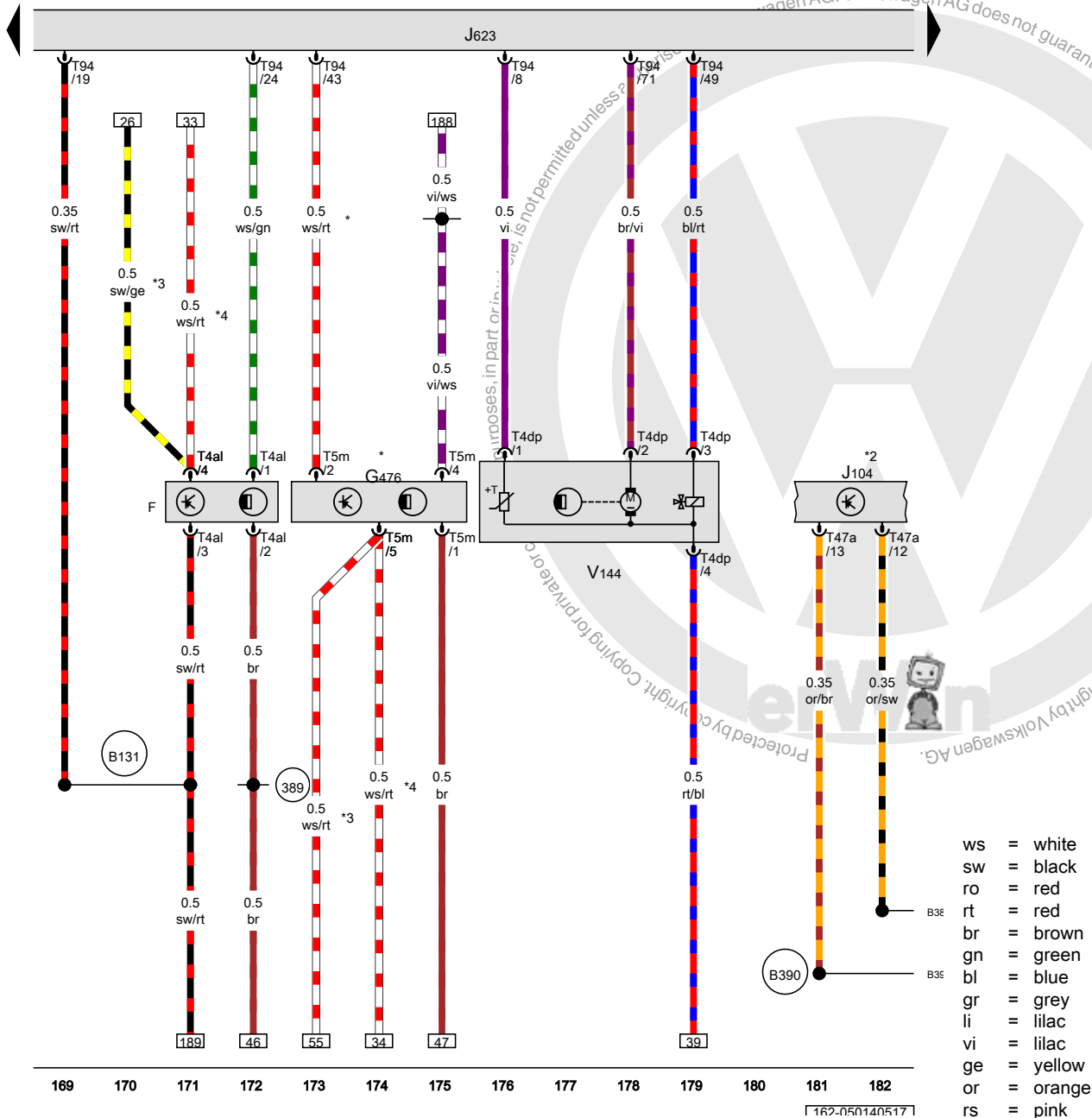
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- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Mass Airflow Sensor, Oxygen Sensor After Catalytic Converter, Engine Control Module, Oxygen Sensor Heater, Heater for Oxygen Sensor 1 After Catalytic Converter

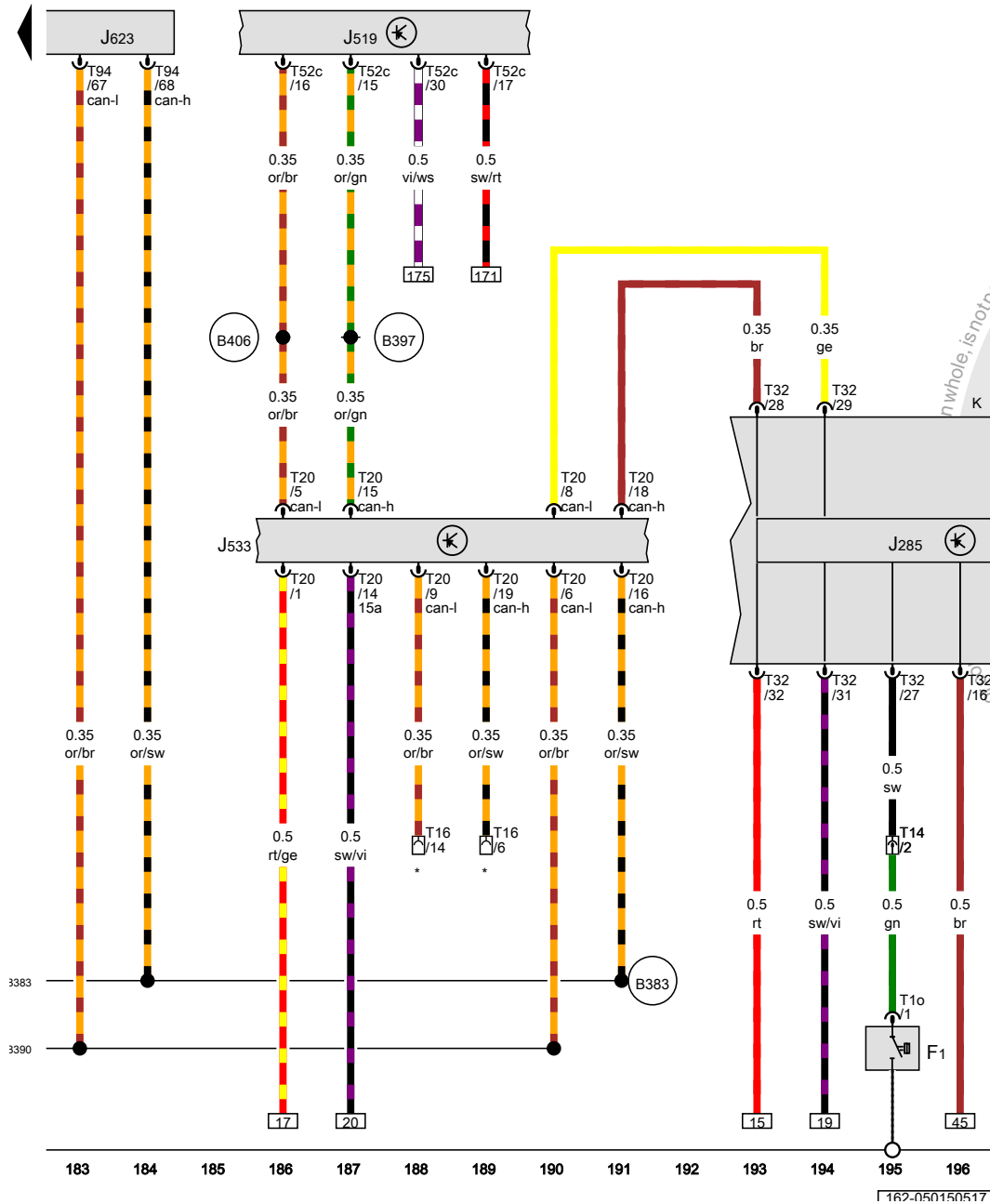


Brake Lamp Switch, Clutch Position Sensor, Engine Control Module, Leak Detection Pump



- F Brake Lamp Switch
- G476 Clutch Position Sensor
- J104 ABS Control Module
- J623 Engine Control Module
- T4al 4-Pin Connector
- T4dp 4-Pin Connector
- T5m 5-Pin Connector
- T47a 47-Pin Connector
- T94 94-Pin Connector
- V144 Leak Detection Pump
- 389 Ground Connection 24 (in Main Wiring Harness)
- B131 Connection 54 (in Interior Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with a Manual Transmission
- *2 For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *3 Depending on Equipment
- *4 Running Change

Oil Pressure Switch, Data Bus on Board Diagnostic Interface, Engine Control Module, Instrument Cluster



- F1 Oil Pressure Switch
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine Control Module
- K Instrument Cluster
- T10 1-Pin Connector
- T14 14-Pin Connector
- T16 16-Pin Connector
- T20 20-Pin Connector
- T32 32-Pin Connector
- T52c 52-Pin Connector
- T94 94-Pin Connector

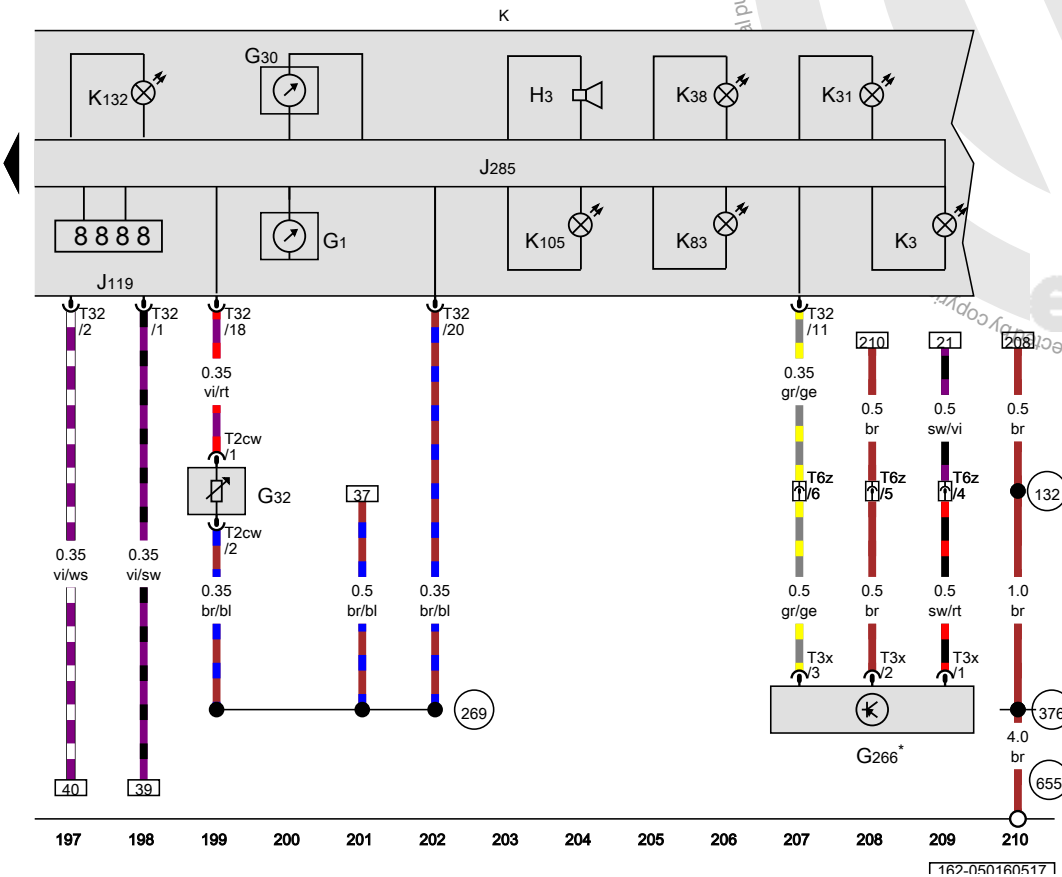
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- B397 Comfort System CAN Bus High Connection 1 (in Main Wiring Harness)
- B406 Comfort System CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Diagnostic Connector

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
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Fuel Gauge, Charge Air Pressure Gauge, Warning Buzzer and Tone, Instrument Cluster, Oil Pressure Indicator Lamp, Cruise Control Indicator Lamp, Oil Level Indicator Lamp, Malfunction Indicator Lamp, Low Fuel Level Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- G1 Fuel Gauge
- G30 Charge Air Pressure Gauge
- G32 Engine Coolant Level Sensor
- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J119 Multifunction Indicator
- J285 Instrument Cluster Control Module
- K Instrument Cluster
- K3 Oil Pressure Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K38 Oil Level Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T2cw 2-Pin Connector
- T3x 3-Pin Connector
- T6z 6-Pin Connector
- T32 32-Pin Connector

- 132 Ground Connection 3 (in Engine Compartment Wiring Harness)
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 655 Ground Connection on Left Headlamp
- * For Vehicles with Maintenance Interval Extension



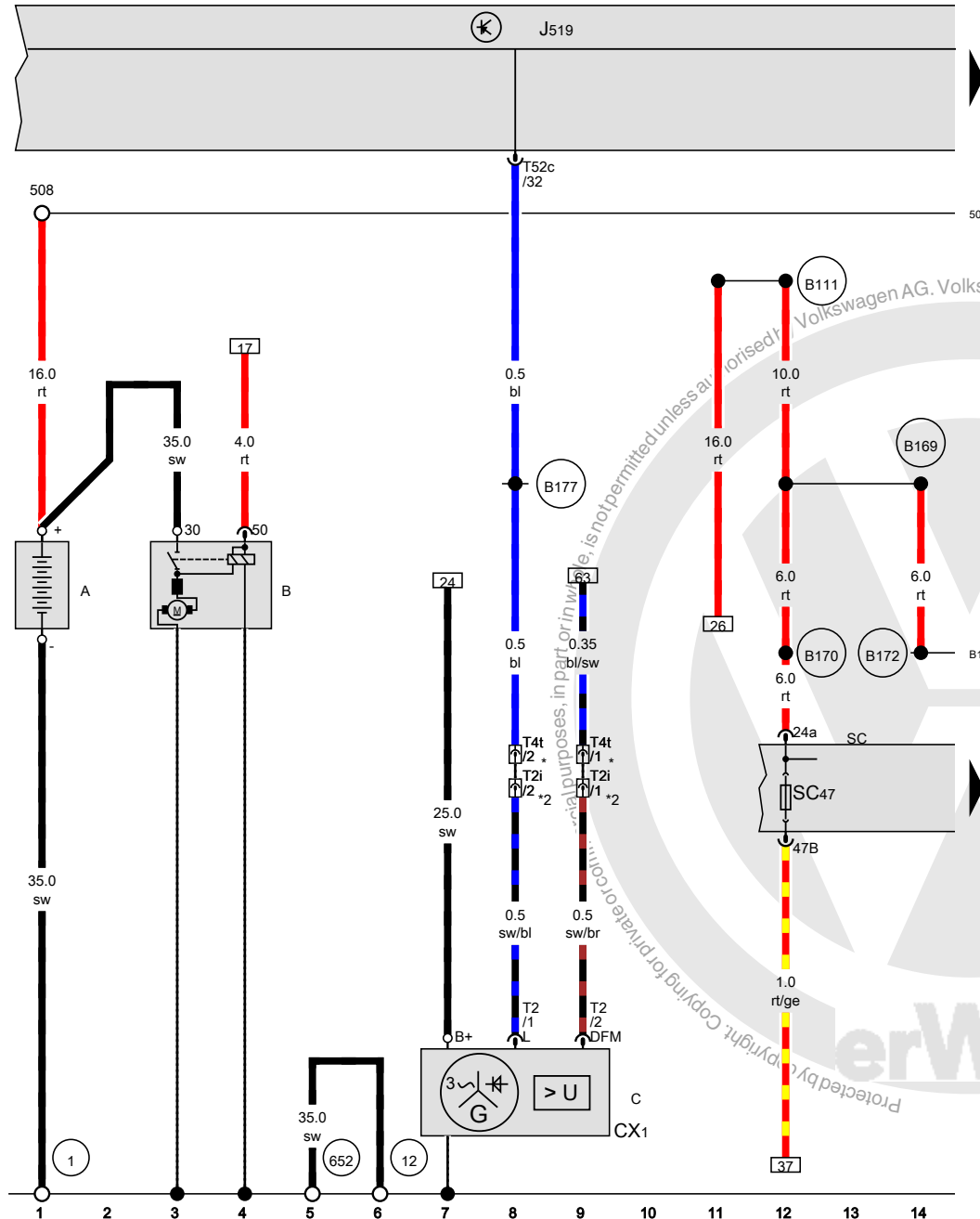
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2.0L Gasoline Engine , CBFA,(AW1)

From March 2011



Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse Panel C



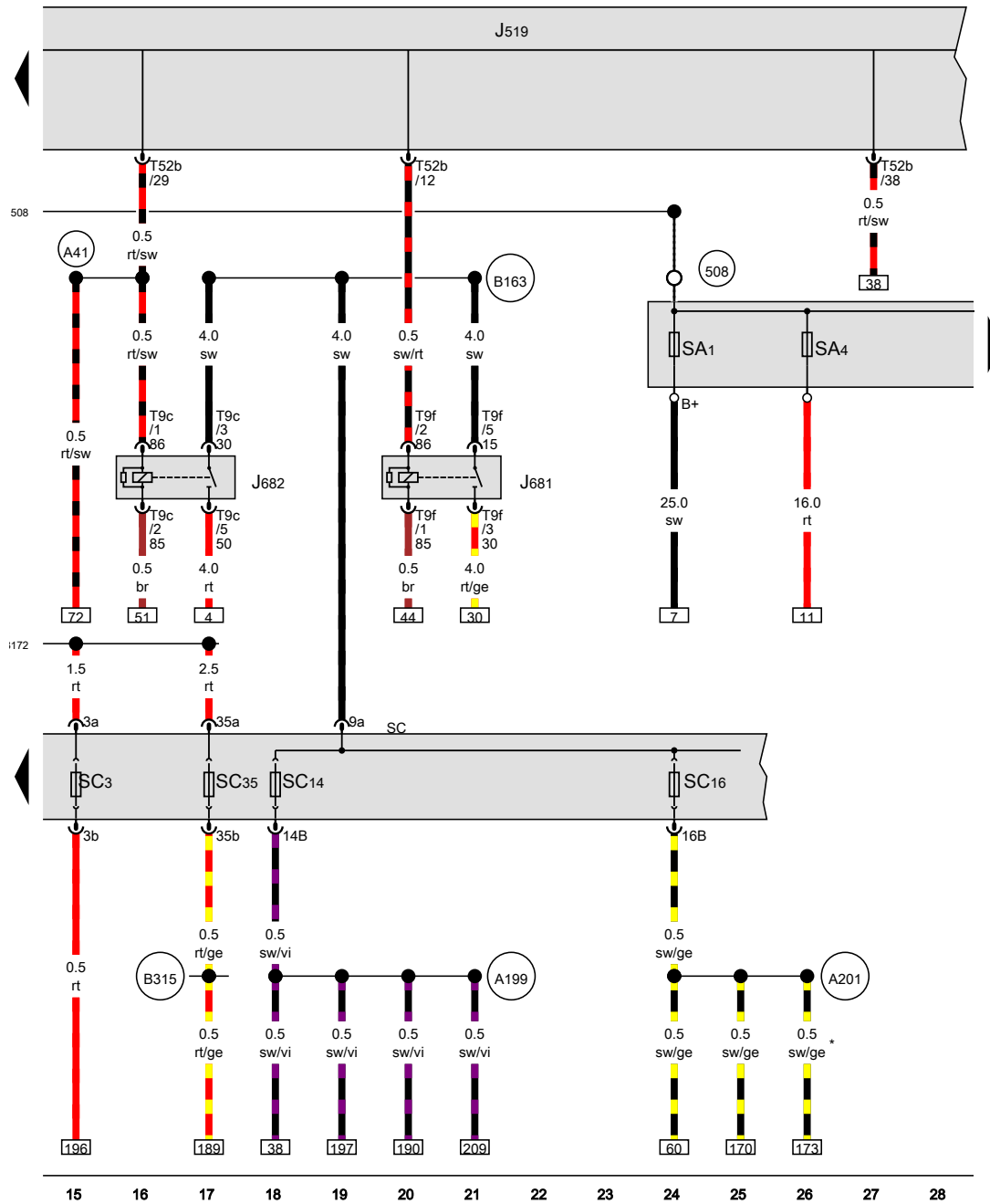
- A Battery
- B Starter
- C Generator
- CX1 Generator with Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SC Fuse Panel C
- SC47 Fuse 47 (On Fuse Panel C)
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T52c 52-Pin Connector

- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)

- * For Vehicles with A/C System
- *2 For Vehicles Without an A/C System

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162-051020517



**Vehicle Electrical System Control Module, Terminal 15
Power Supply Relay 2, Terminal 50 Power Supply Relay,
Fuse Panel C**

- J519 Vehicle Electrical System Control Module
- J681 Terminal 15 Power Supply Relay 2
- J682 Terminal 50 Power Supply Relay
- SA1 Fuse 1 (On Fuse Panel A)
- SC3 Fuse 3 (On Fuse Panel C)
- SA4 Fuse 4 (On Fuse Panel A)
- SC Fuse Panel C
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- T9c 9-Pin Connector
- T9f 9-Pin Connector
- T52b 52-Pin Connector

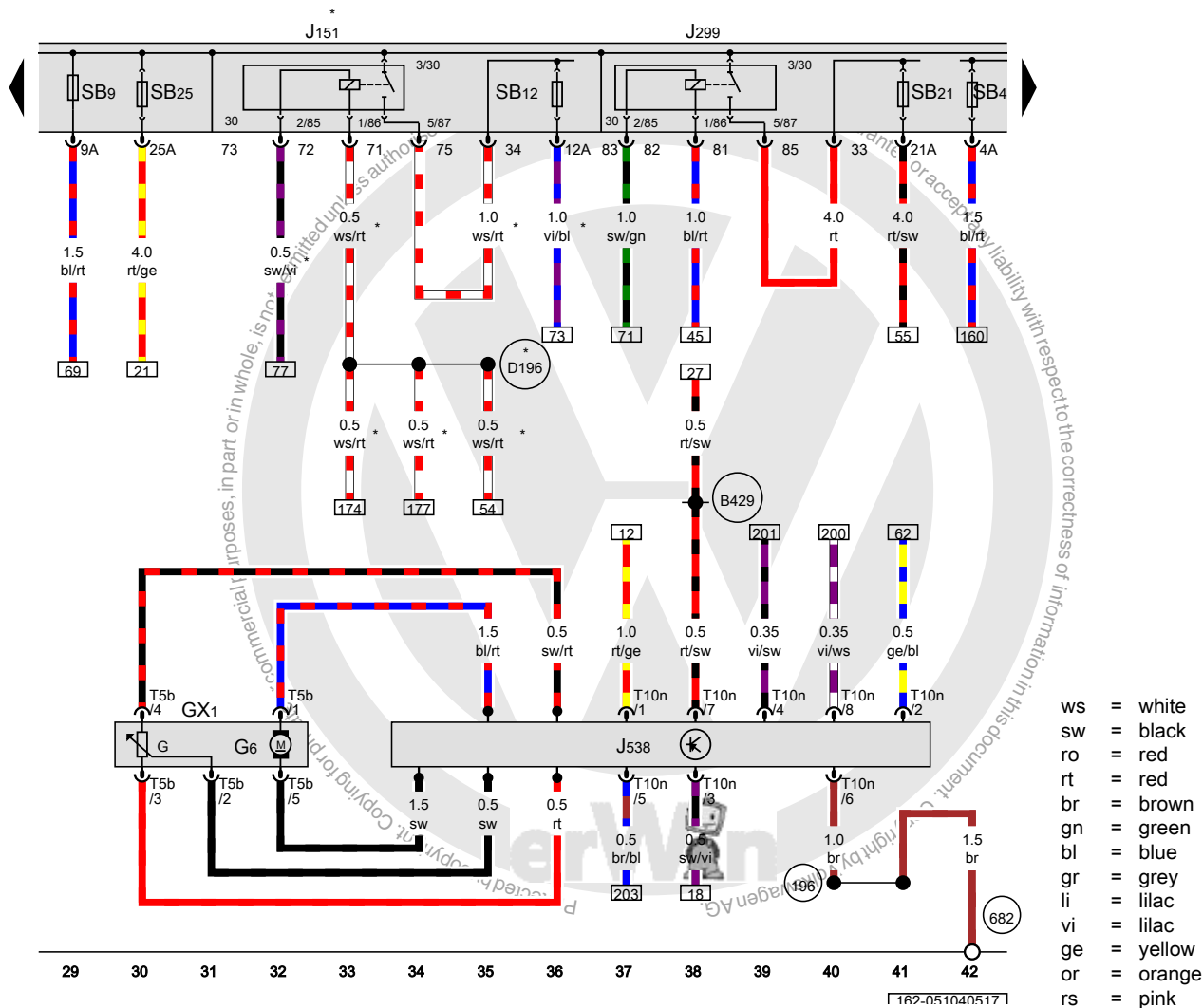
- 508 Terminal 30 Threaded Connection (On E-Box)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- * Depending on Equipment

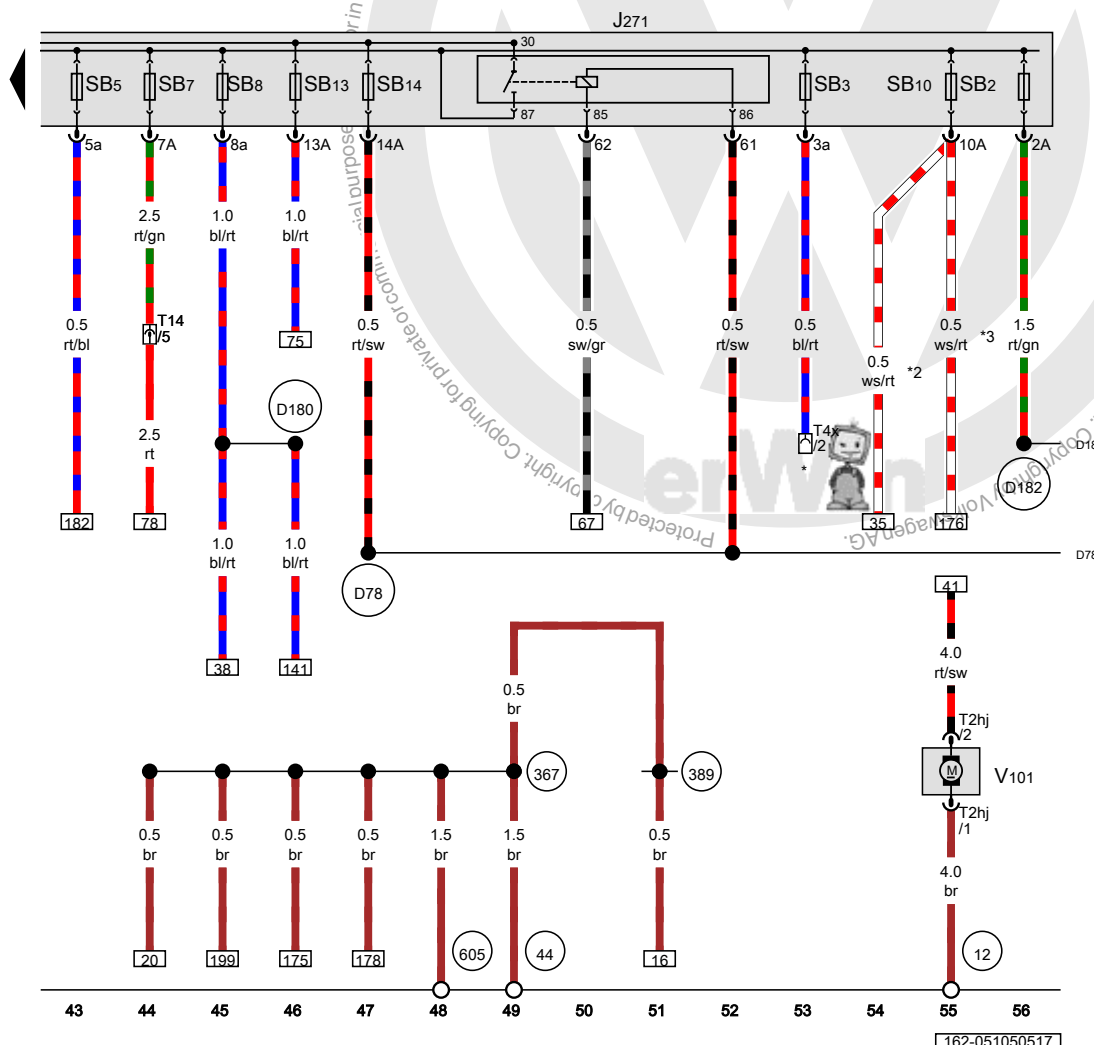
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- gr = grey
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Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Coolant Circulation Pump Relay, Fuse 25 (On Fuse Panel B)

- | | |
|------|------------------------------------|
| G | Fuel Level Sensor |
| GX1 | Fuel Delivery Unit |
| G6 | Transfer Fuel Pump |
| J151 | Coolant Circulation Pump Relay |
| J299 | Secondary Air Injection Pump Relay |
| J538 | Fuel Pump Control Module |
| SB4 | Fuse 4 (On Fuse Panel B) |
| SB9 | Fuse 9 (On Fuse Panel B) |
| SB12 | Fuse 12 (On Fuse Panel B) |
| SB21 | Fuse 21 (On Fuse Panel B) |
| SB25 | Fuse 25 (On Fuse Panel B) |
| T5b | 5-Pin Connector |
| T10n | 10-Pin Connector |

- | | |
|------|---|
| 196 | Ground Connection 3 (in Rear Wiring Harness) |
| 682 | Ground Connection 2 in Right Rear Side Panel |
| B429 | Fuel Pump Relay Connection (in Main Wiring Harness) |
| D196 | Connection 87A (in Engine Pre-Wiring Harness) 2 |
| * | Running Change |



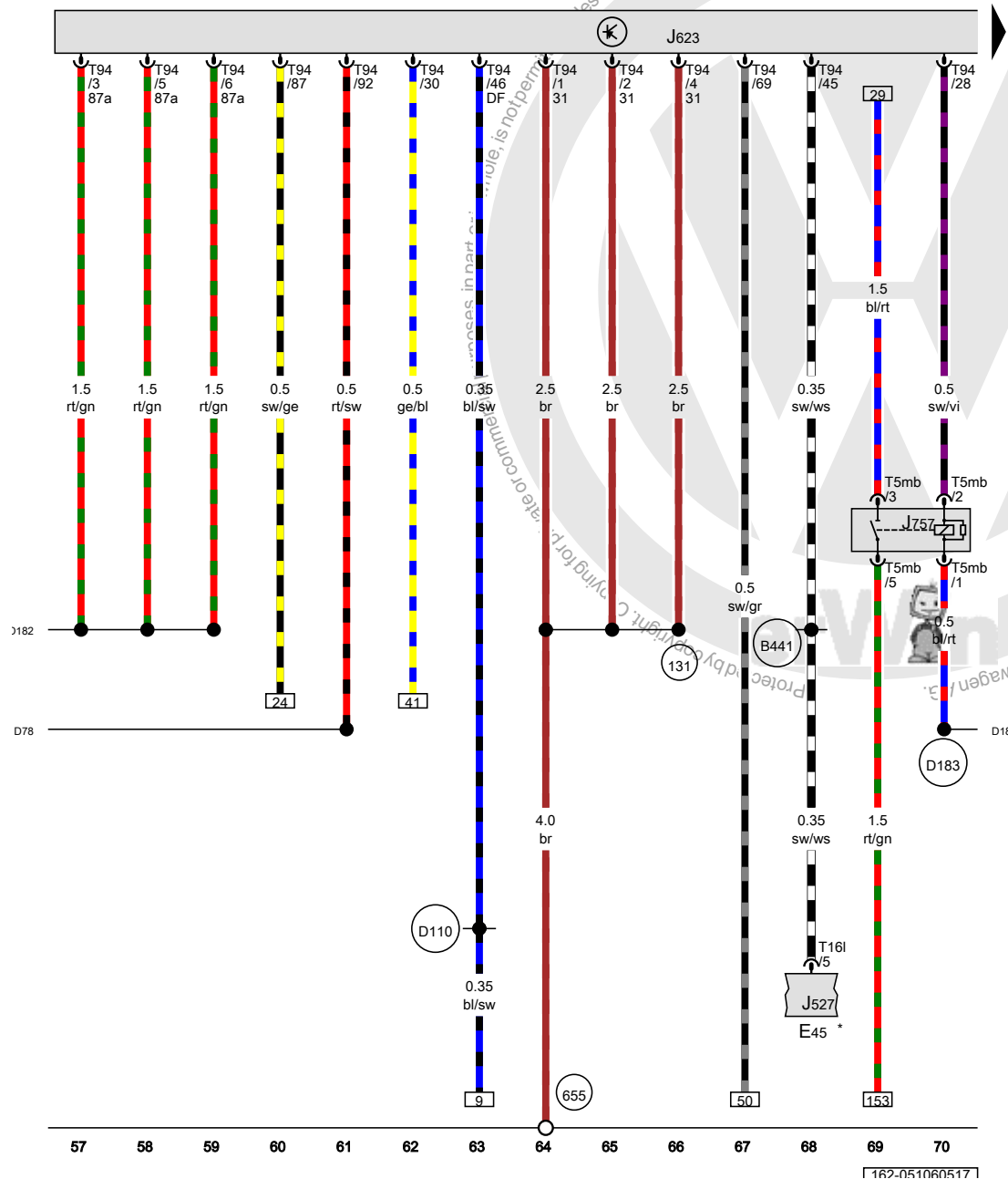


Motronic Engine Control Module Power Supply Relay

- J271 Motronic Engine Control Module Power Supply Relay
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB7 Fuse 7 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB13 Fuse 13 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- T2hj 2-Pin Connector
- T4x 4-Pin Connector
- T14 14-Pin Connector
- V101 Secondary Air Injection Pump Motor

- 12 Ground Connection in Engine Compartment, Left
- 44 Ground Connection on A-Pillar, Lower Left
- 367 Ground Connection 2 (in Main Wiring Harness)
- 389 Ground Connection 24 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- D78 Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)
- D180 Connection 87A (in Engine Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine Compartment Wiring Harness)

- * Radiator Fan Connection
- *2 Running Change
- *3 Depending on Equipment



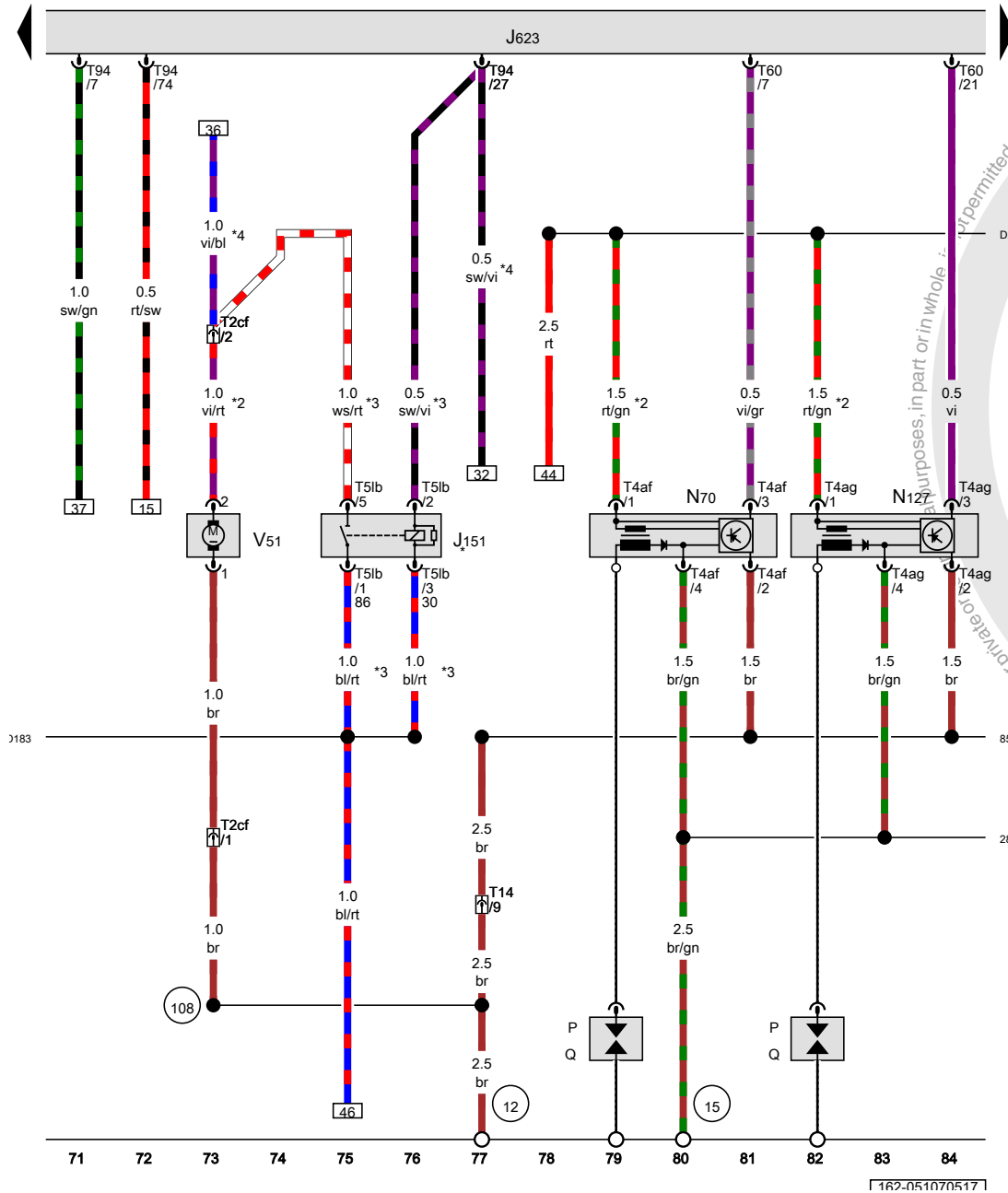
Engine Control Module, Engine Component Power Supply Relay

- E45 Cruise Control Switch
- J527 Steering Column Electronics Control Module
- J623 Engine Control Module
- J757 Engine Component Power Supply Relay
- T5mb 5-Pin Connector
- T16l 16-Pin Connector
- T94 94-Pin Connector

- 131 Ground Connection 2 (in Engine Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- B441 Cruise Control Connection (in Main Wiring Harness)
- D78 Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)
- D110 Connection 8 (in Engine Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine Compartment Wiring Harness)
- D183 Connection 4 (87A) (in Engine Compartment Wiring Harness)

* For Vehicles with Cruise Control System

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



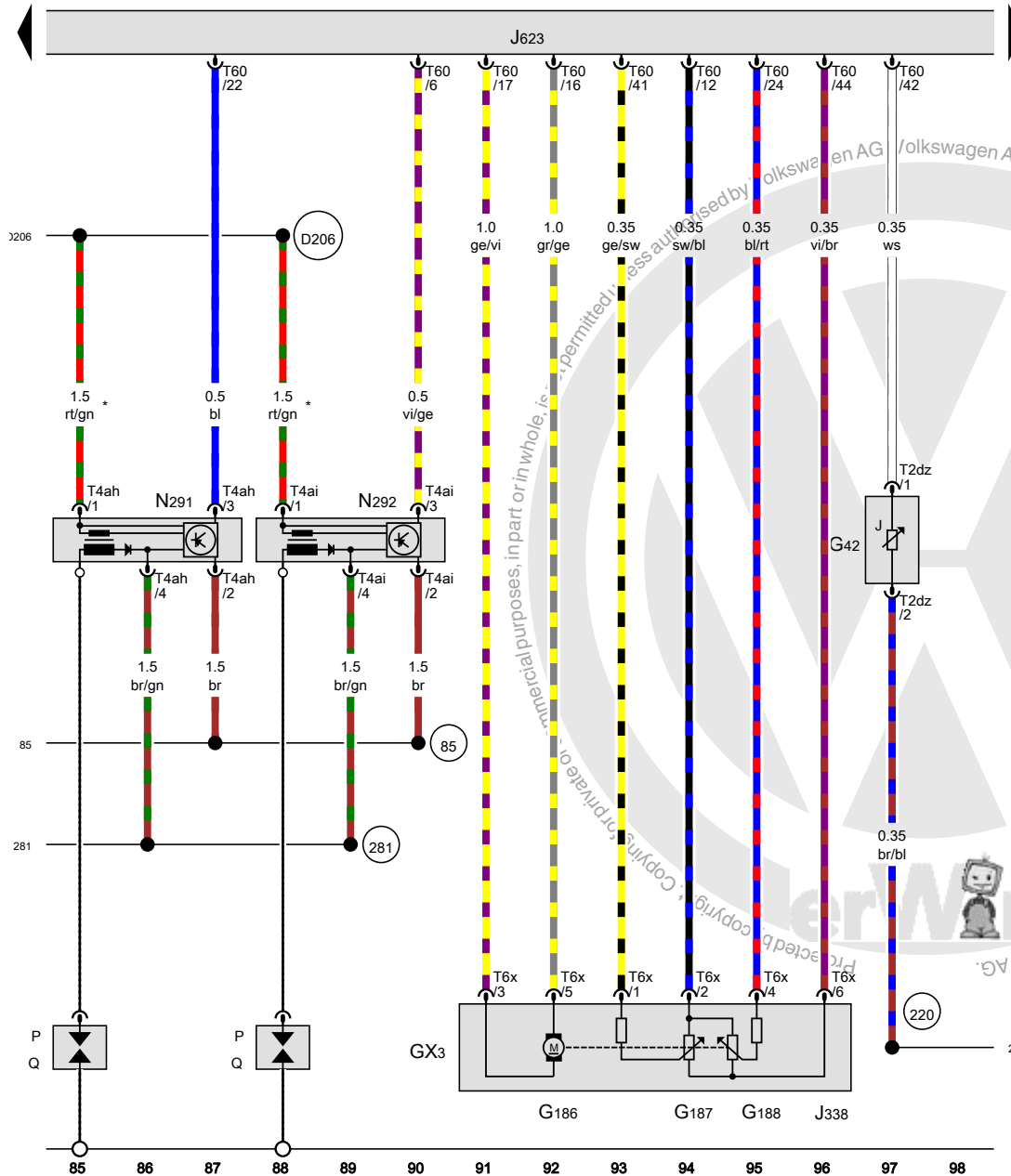
Engine Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Spark Plug Connectors, Spark Plugs, After-Run Coolant Pump

- J151 Coolant Circulation Pump Relay, In the Interior
- J623 Engine Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2cf 2-Pin Connector
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T5lb 5-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- V51 After-Run Coolant Pump

- 12 Ground Connection in Engine Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D183 Connection 4 (87A) (in Engine Compartment Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

- * Optional
- *2 The Color of the Wires Depends on Vehicle Equipment
- *3 Depending on Equipment
- *4 Running Change

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Throttle Valve Control Module, Intake Air Temperature Sensor, Engine Control Module, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors

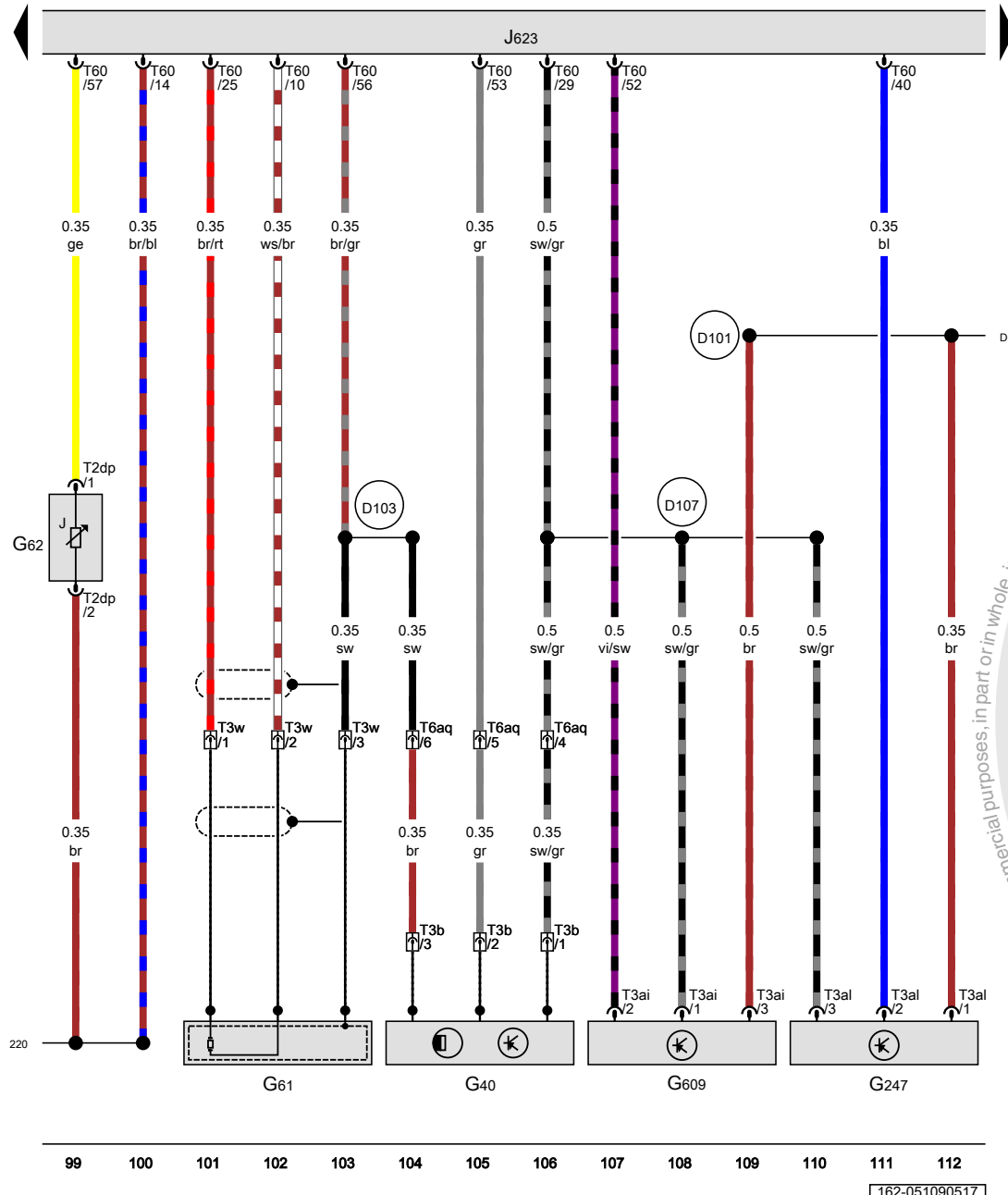
- GX3 Throttle Valve Control Module
- G42 Intake Air Temperature Sensor
- G186 EPC Throttle Drive
- G187 EPC Throttle Drive Angle Sensor 1
- G188 EPC Throttle Drive Angle Sensor 2
- J338 Throttle Valve Control Module
- J623 Engine Control Module
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2dz 2-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T6x 6-Pin Connector
- T60 60-Pin Connector

- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 220 Sensor Ground Connection (in Engine Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4
- * The Color of the Wires Depends on Vehicle Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

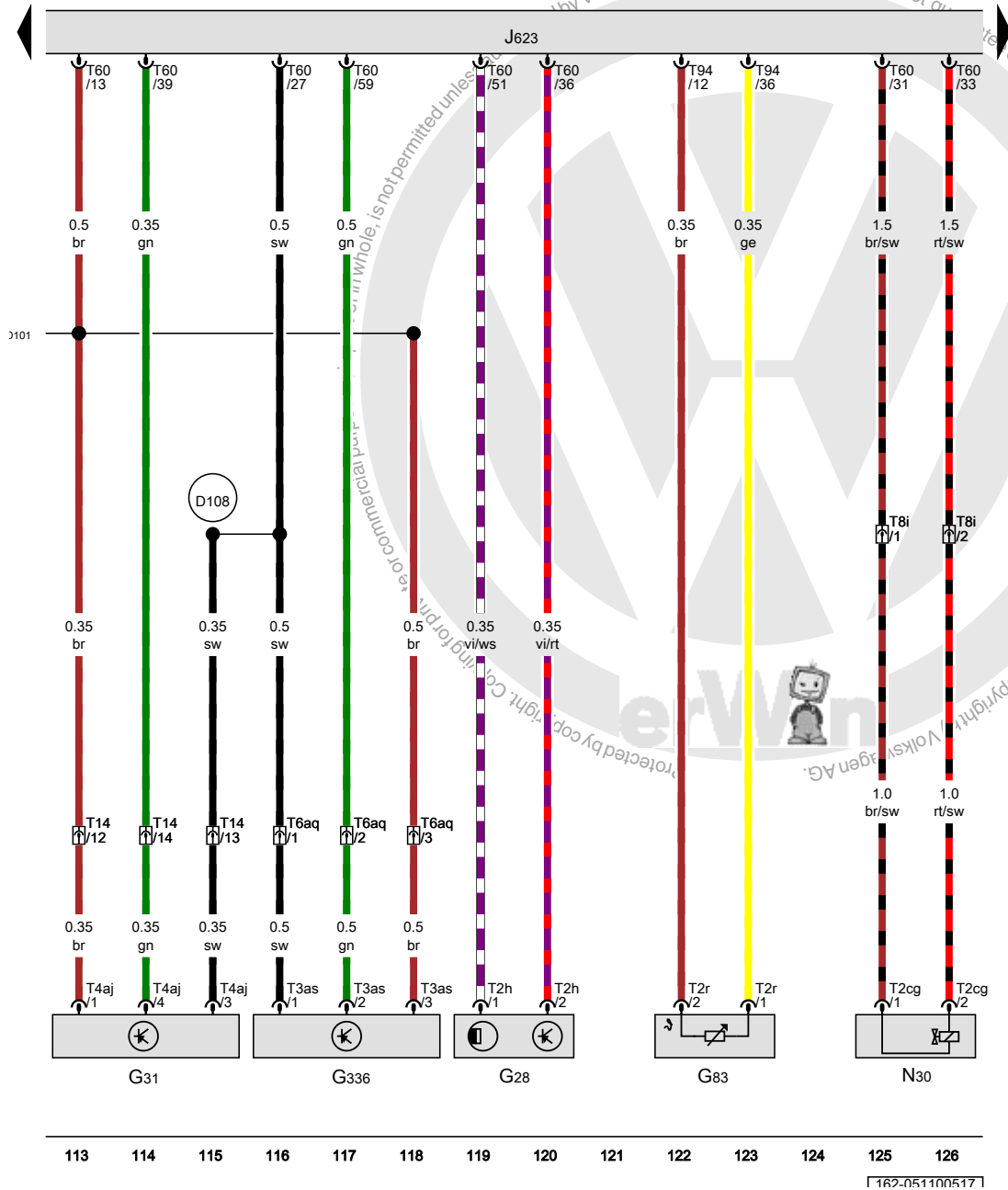
162-051080517

Camshaft Position Sensor, Knock Sensor 1, Engine Coolant Temperature Sensor, Engine Control Module



- G40 Camshaft Position Sensor
- G61 Knock Sensor 1
- G62 Engine Coolant Temperature Sensor
- G247 Fuel Pressure Sensor
- G609 Secondary Air Injection Sensor 1
- J623 Engine Control Module
- T2dp 2-Pin Connector
- T3ai 3-Pin Connector
- T3al 3-Pin Connector
- T3b 3-Pin Connector
- T3w 3-Pin Connector
- T6aq 6-Pin Connector
- T60 60-Pin Connector
- 220 Sensor Ground Connection (in Engine Wiring Harness)
- D101 Connection 1 (in Engine Compartment Wiring Harness)
- D103 Connection 3 (in Engine Compartment Wiring Harness)
- D107 Connection 5 (in Engine Compartment Wiring Harness)

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



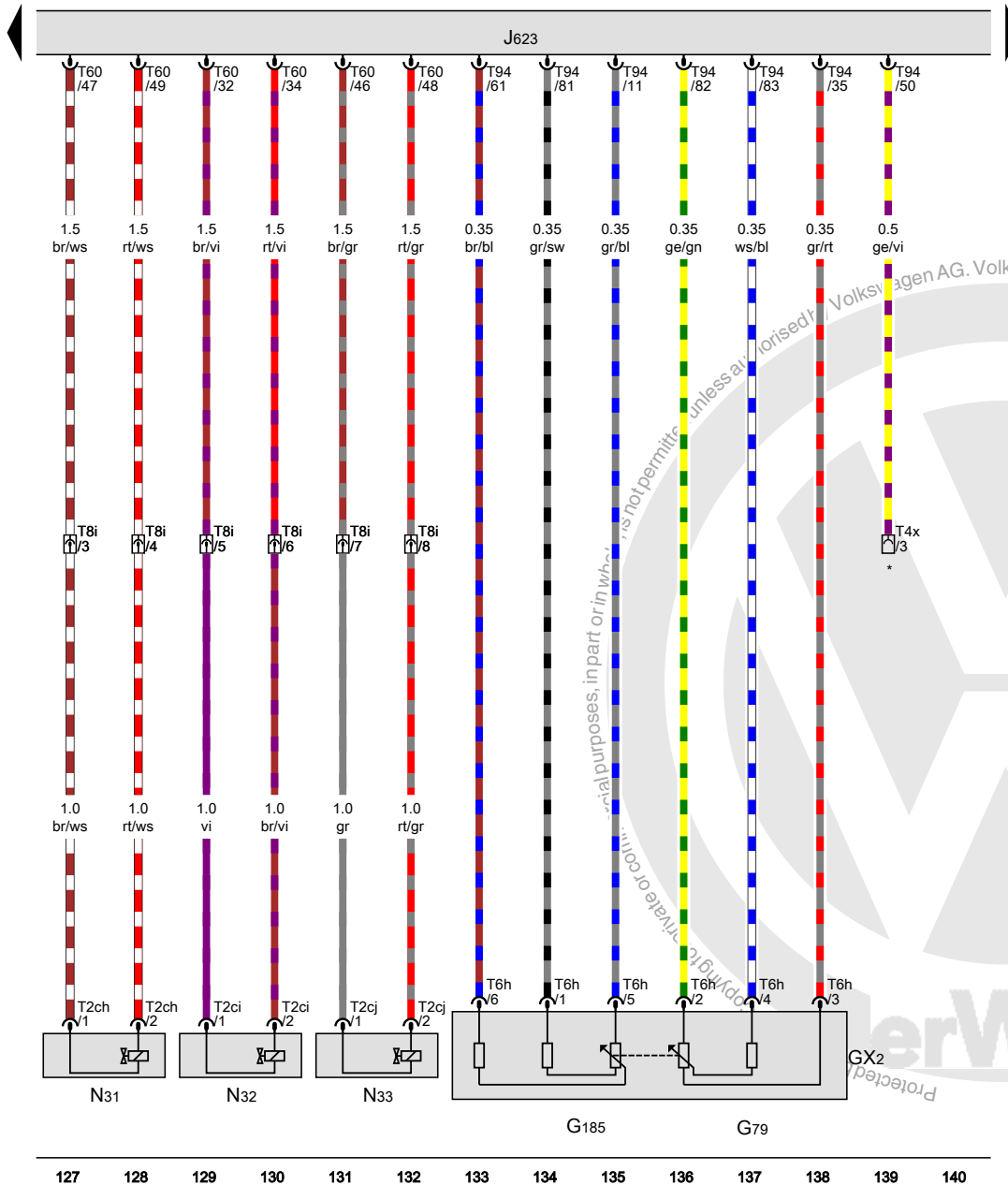
Engine Speed Sensor, Charge Air Pressure Sensor, Engine Coolant Temperature Sensor on Radiator Outlet, Engine Control Module, Cylinder 1 Fuel Injector

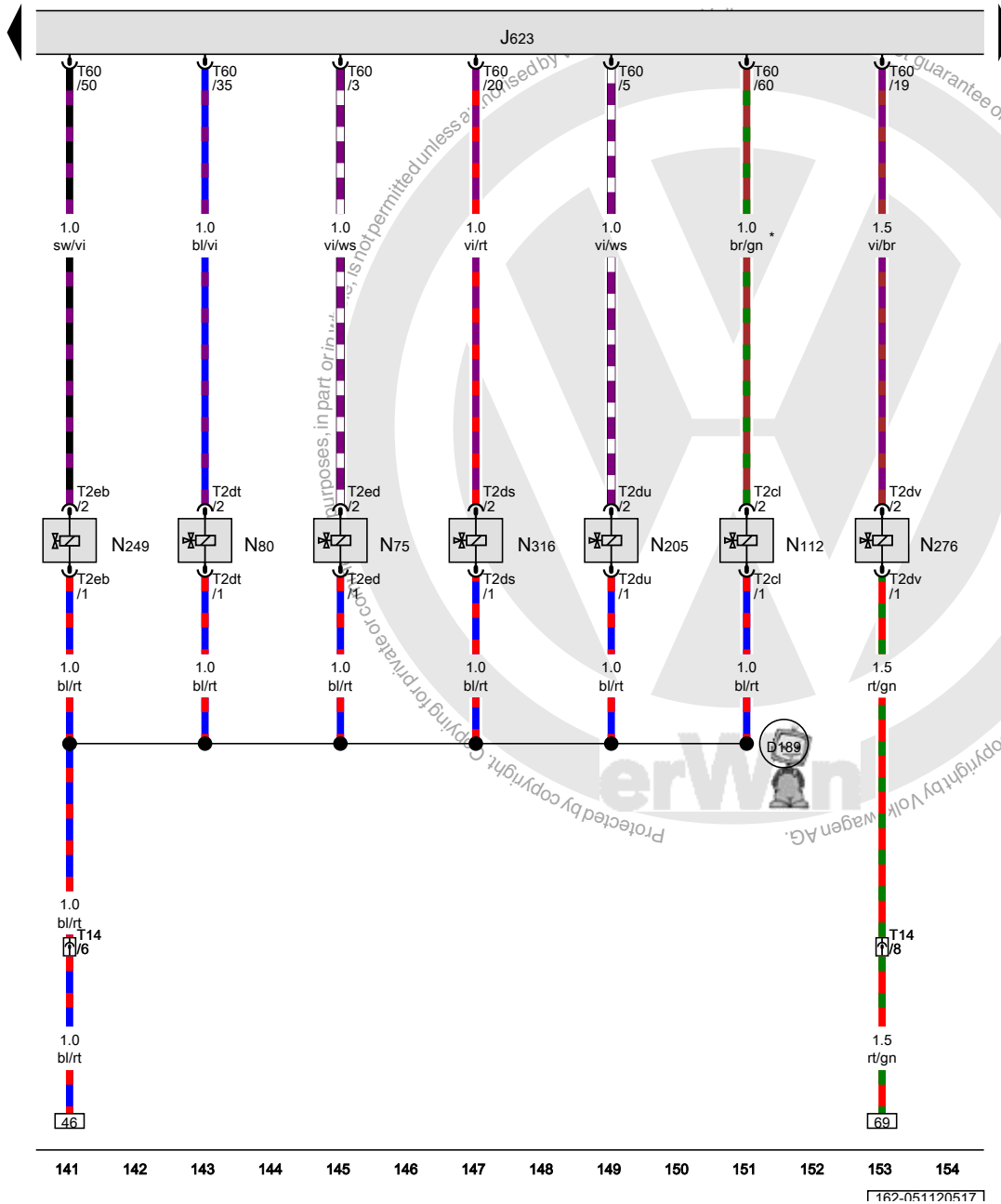
- G28 Engine Speed Sensor
- G31 Charge Air Pressure Sensor
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- G336 Intake Manifold Runner Position Sensor
- J623 Engine Control Module
- N30 Cylinder 1 Fuel Injector
- T2cg 2-Pin Connector
- T2h 2-Pin Connector
- T2r 2-Pin Connector
- T3as 3-Pin Connector
- T4aj 4-Pin Connector
- T6aq 6-Pin Connector
- T8i 8-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector

D101 Connection 1 (in Engine Compartment Wiring Harness)

D108 Connection 6 (in Engine Compartment Wiring Harness)

Accelerator Pedal Module, Engine Control Module, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector





Engine Control Module, EVAP Canister Purge Regulator Valve 1, Secondary Air Injection Solenoid Valve, Camshaft Adjustment Valve 1, Turbocharger Recirculation Valve, Fuel Pressure Regulator Valve, Intake Manifold Runner Control Valve

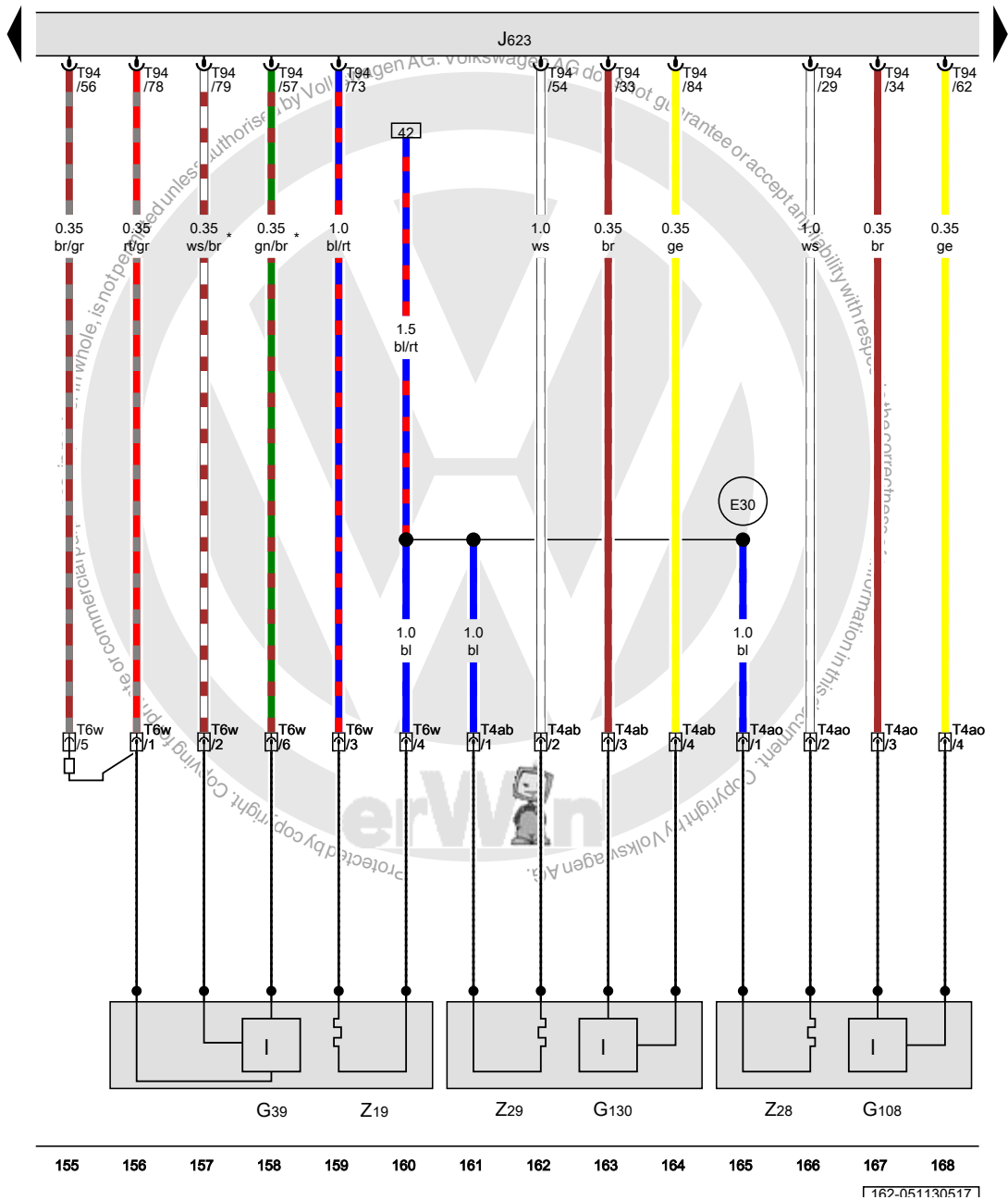
- J623 Engine Control Module
- N75 Wastegate Bypass Regulator Valve
- N80 EVAP Canister Purge Regulator Valve 1
- N112 Secondary Air Injection Solenoid Valve
- N205 Camshaft Adjustment Valve 1
- N249 Turbocharger Recirculation Valve
- N276 Fuel Pressure Regulator Valve
- N316 Intake Manifold Runner Control Valve
- T2cl 2-Pin Connector
- T2ds 2-Pin Connector
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dv 2-Pin Connector
- T2eb 2-Pin Connector
- T2ed 2-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector

D189 Connection 87A (in Engine Pre-Wiring Harness)

* The Color of the Wires Depends on Vehicle Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Heated Oxygen Sensor 2, Oxygen Sensor After Catalytic Converter, Engine Control Module, Oxygen Sensor Heater, Heater for Oxygen Sensor 1 After Catalytic Converter



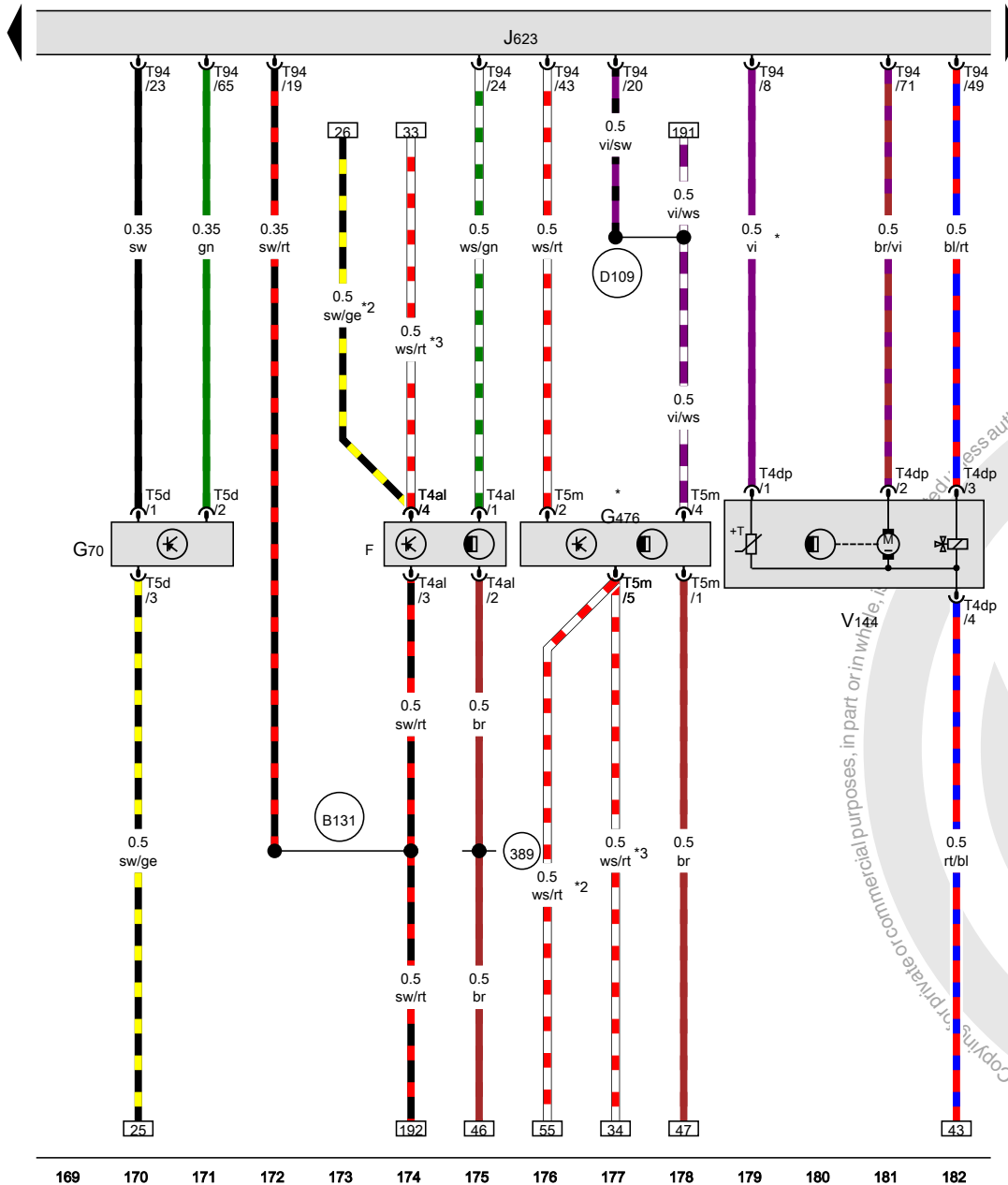
- G39 Heated Oxygen Sensor
- G108 Heated Oxygen Sensor 2
- G130 Oxygen Sensor After Catalytic Converter
- J623 Engine Control Module
- T4ab 4-Pin Connector
- T4ao 4-Pin Connector
- T6w 6-Pin Connector
- T94 94-Pin Connector
- Z19 Oxygen Sensor Heater
- Z28 Oxygen Sensor 2 Heater
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter

E30 Connection 87A (in Engine Wiring Harness)

* The Color of the Wires Depends on Vehicle Equipment

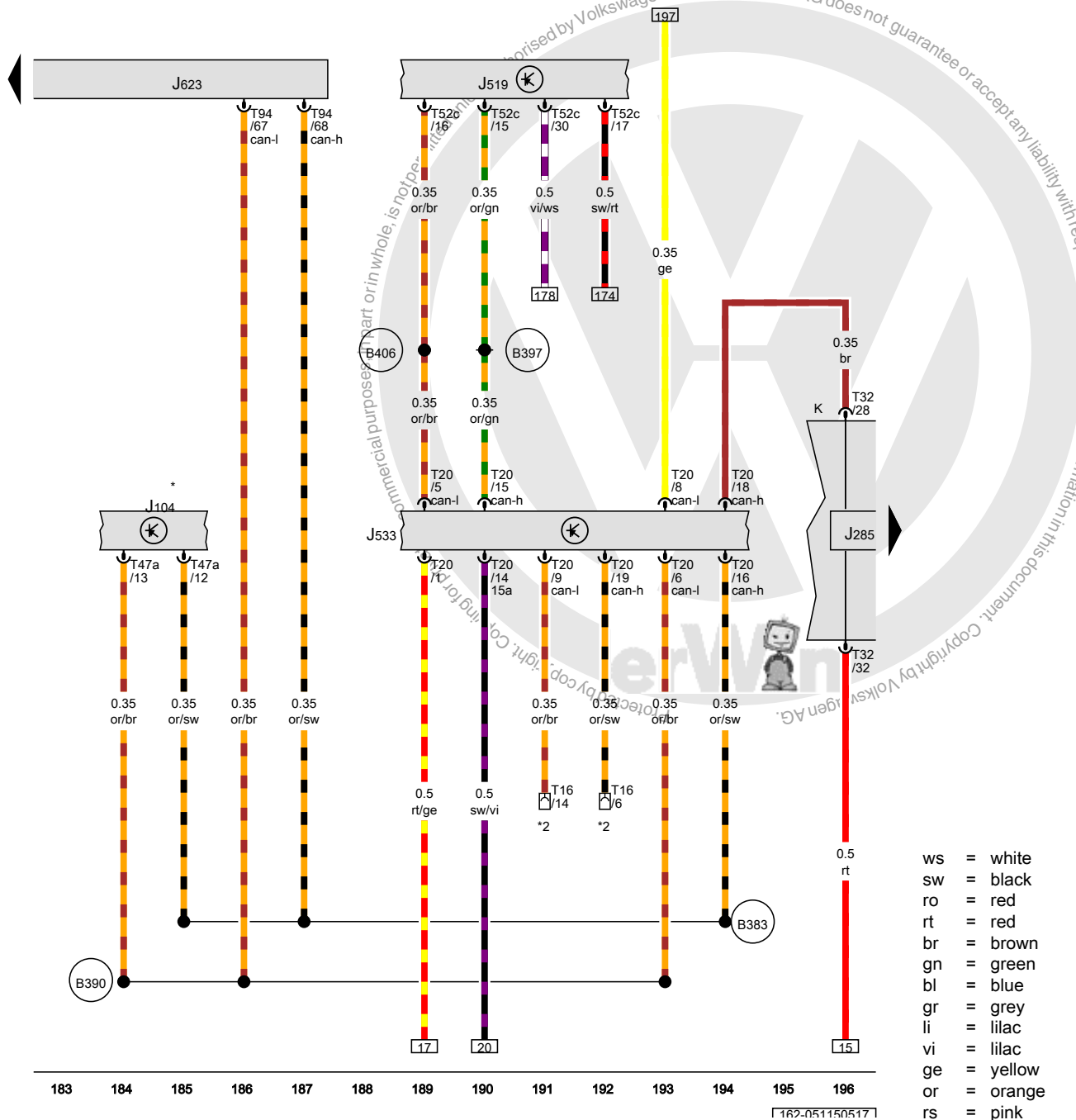
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Brake Lamp Switch, Mass Airflow Sensor, Clutch Position Sensor, Engine Control Module, Leak Detection Pump



- F Brake Lamp Switch
- G70 Mass Airflow Sensor
- G476 Clutch Position Sensor
- J623 Engine Control Module
- T4al 4-Pin Connector
- T4dp 4-Pin Connector
- T5d 5-Pin Connector
- T5m 5-Pin Connector
- T94 94-Pin Connector
- V144 Leak Detection Pump
- 389 Ground Connection 24 (in Main Wiring Harness)
- B131 Connection 54 (in Interior Wiring Harness)
- D109 Connection 7 (in Engine Compartment Wiring Harness)
- * For Vehicles with a Manual Transmission
- *2 Depending on Equipment
- *3 Running Change

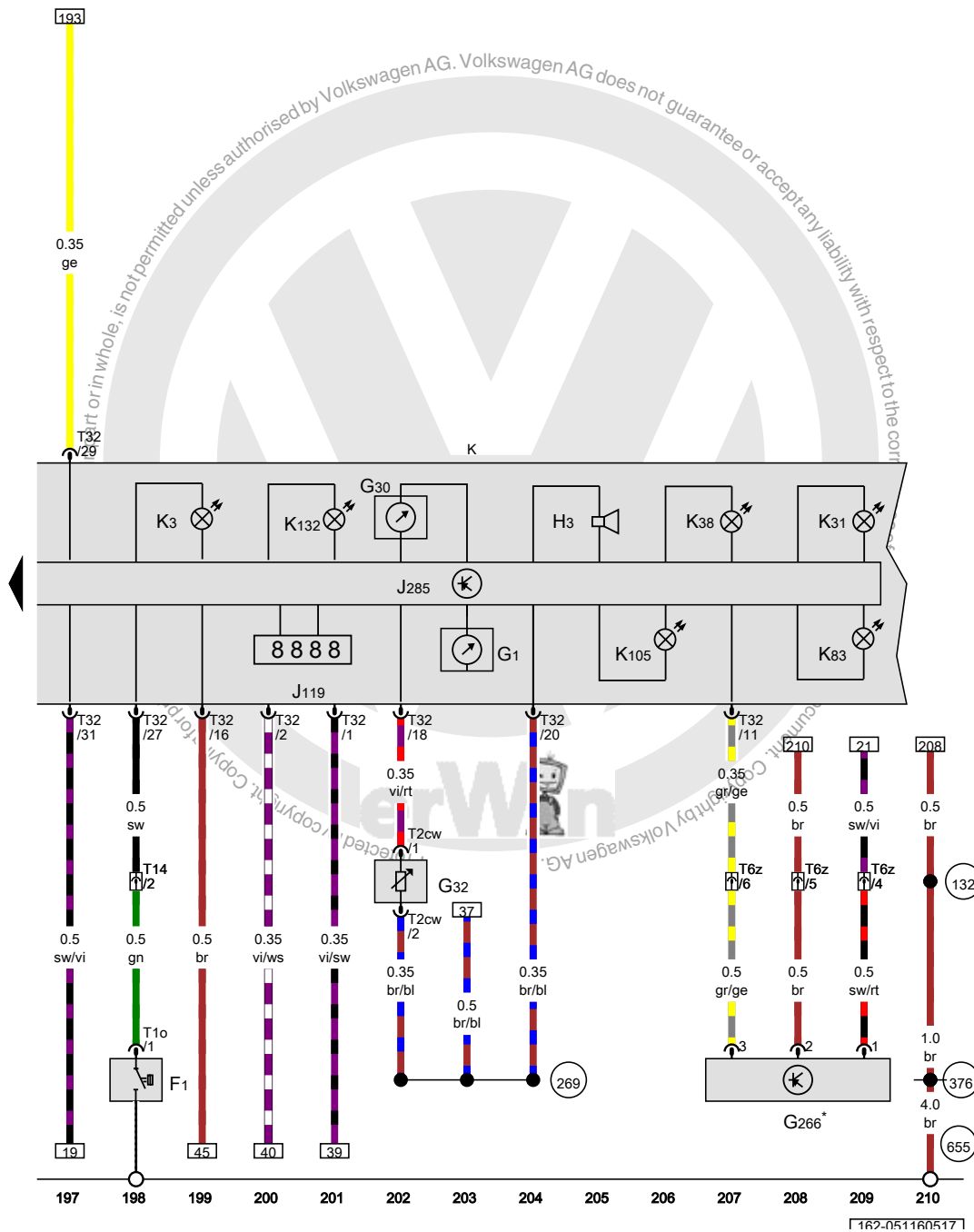
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 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = violet
 ge = yellow
 or = orange
 rs = pink



Data Bus on Board Diagnostic Interface, Engine Control Module, Instrument Cluster

- J104 ABS Control Module
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine Control Module
- K Instrument Cluster
- T16 16-Pin Connector
- T20 20-Pin Connector
- T32 32-Pin Connector
- T47a 47-Pin Connector
- T52c 52-Pin Connector
- T94 94-Pin Connector
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- B397 Comfort System CAN Bus High Connection 1 (in Main Wiring Harness)
- B406 Comfort System CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 Diagnostic Connector

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Oil Pressure Switch, Fuel Gauge, Charge Air Pressure Gauge, Warning Buzzer and Tone, Instrument Cluster, Oil Pressure Indicator Lamp, Cruise Control Indicator Lamp, Oil Level Indicator Lamp, Malfunction Indicator Lamp, Low Fuel Level Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G30 Charge Air Pressure Gauge
- G32 Engine Coolant Level Sensor
- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J119 Multifunction Indicator
- J285 Instrument Cluster Control Module
- K Instrument Cluster
- K3 Oil Pressure Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K38 Oil Level Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T1o 1-Pin Connector
- T2cw 2-Pin Connector
- T6z 6-Pin Connector
- T14 14-Pin Connector
- T32 32-Pin Connector

132 Ground Connection 3 (in Engine Compartment Wiring Harness)

269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)

376 Ground Connection 11 (in Main Wiring Harness)

655 Ground Connection on Left Headlamp

* For Vehicles with Maintenance Interval Extension

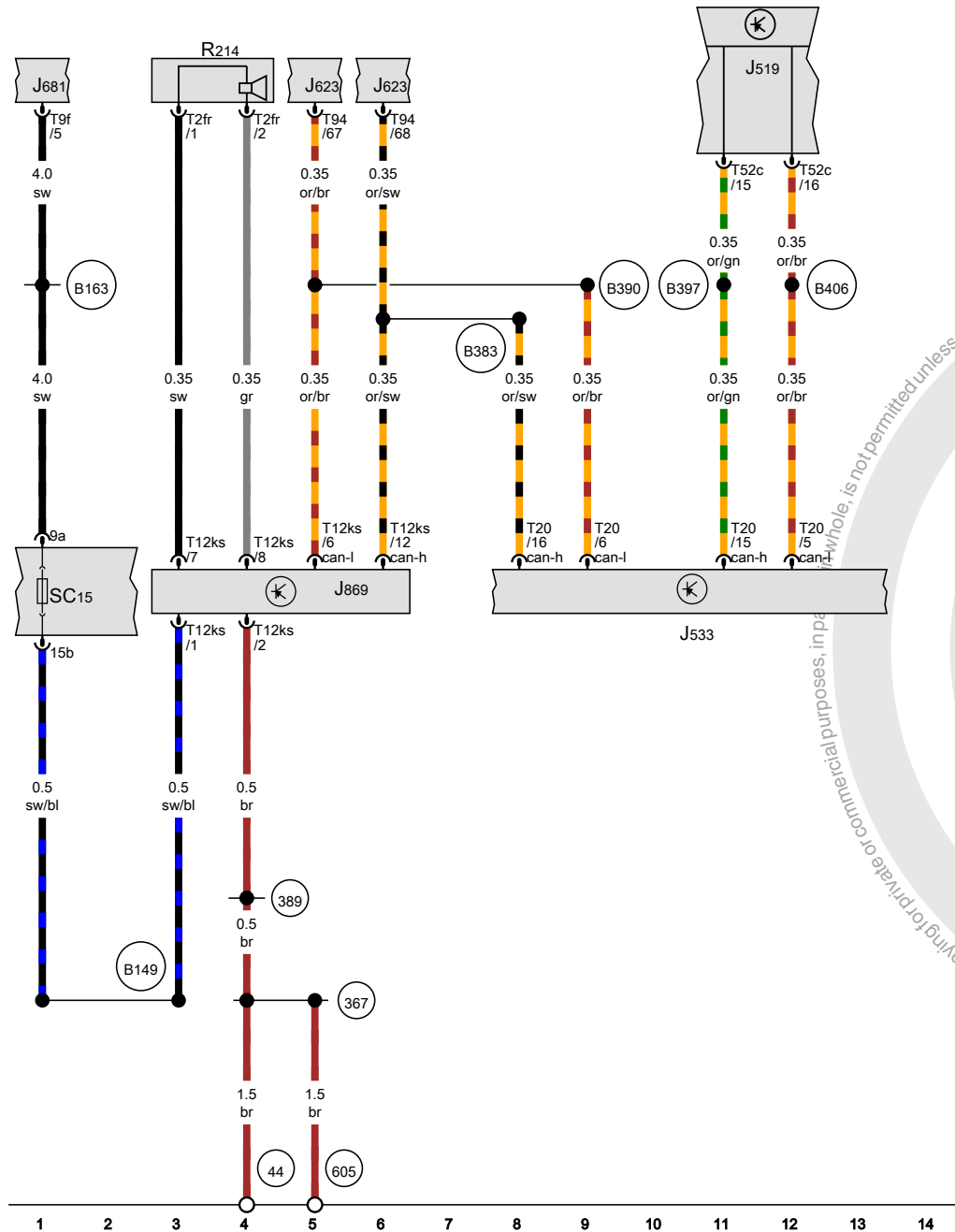
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Structure-borne sound actuator , (A8H)

from April 2010



Vehicle electrical control module system, Data bus on board diagnostic interface, Structure borne sound control module, Structure-borne sound actuator, Fuse 15 (on fuse panel C)



- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- J623 Engine control module
- J681 Terminal 15 power supply relay 2
- J869 Structure borne sound control module
- R214 Structure-borne sound actuator
- SC15 Fuse 15 (on fuse panel C)
- T2fr Double connector
- T9f 9-pin connector
- T12ks 12-pin connector
- T20 20-pin connector
- T52c 52-pin connector
- T94 94-pin connector
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- B149 Positive connection 2 (15a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

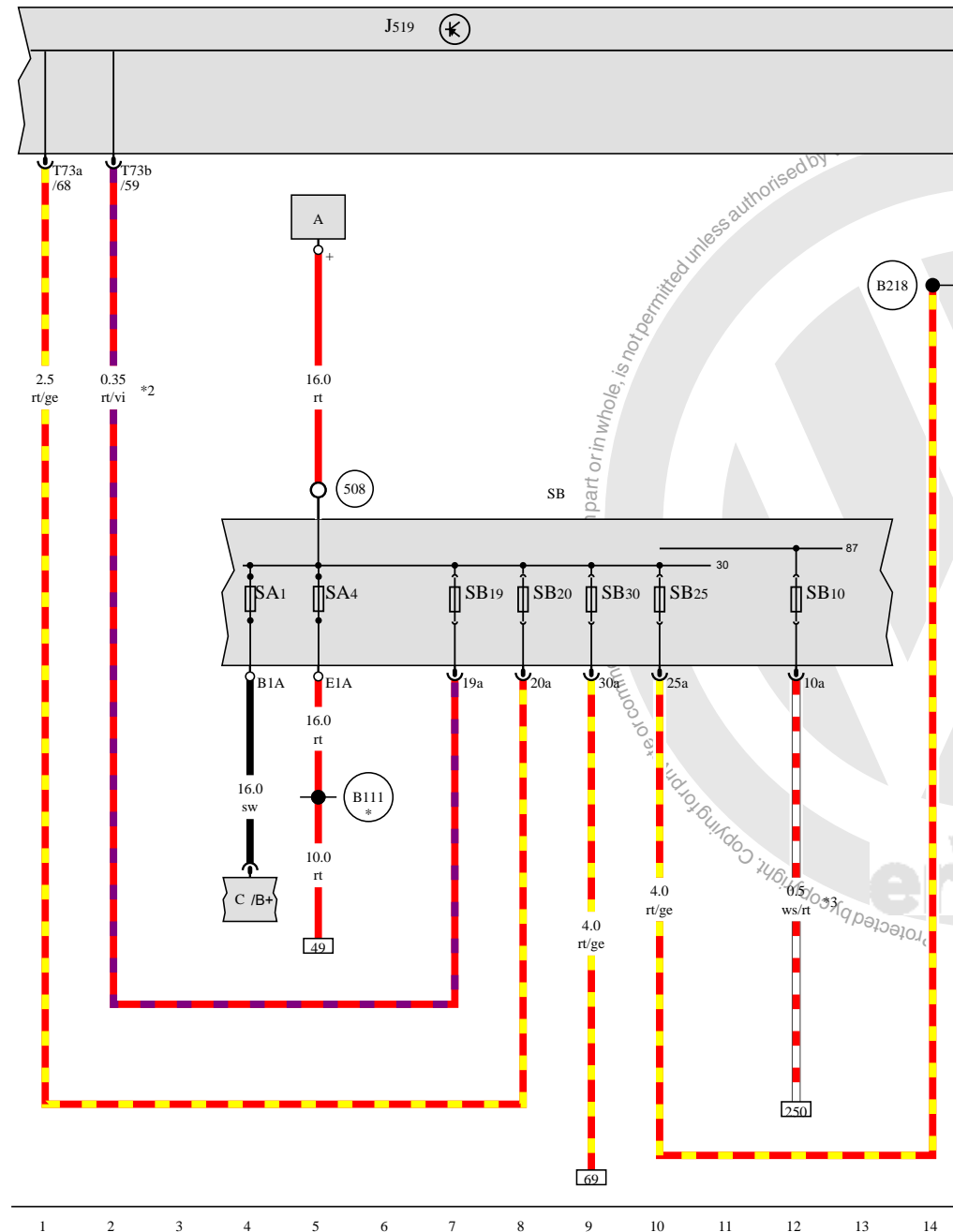
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

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Standard Equipment , (AW0)

From June 2011



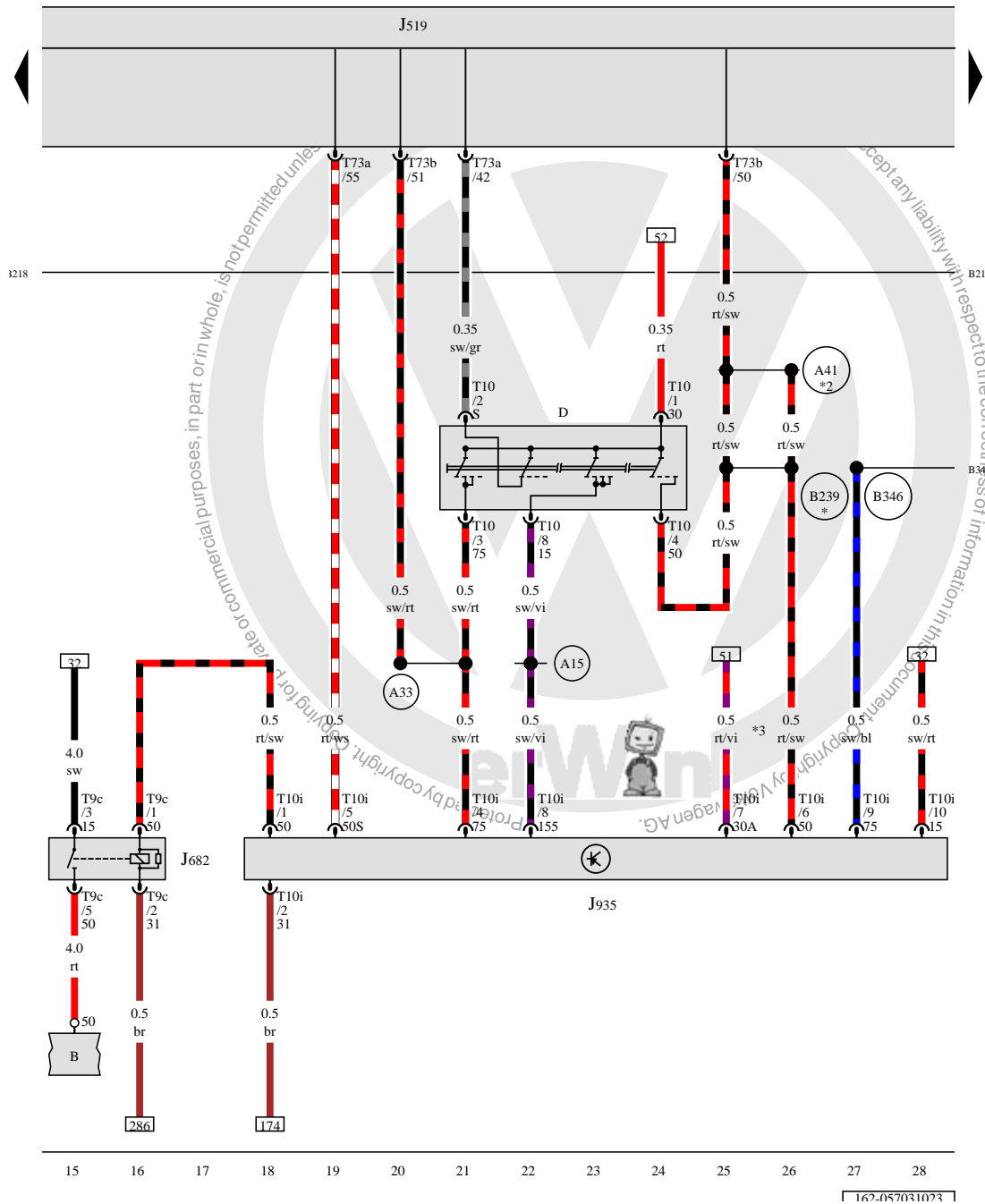


Vehicle Electrical System Control Module, Fuse 1 (On Fuse Panel A), Fuse 4 (On Fuse Panel A), Fuse Panel B

- A Battery
- C Generator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- SB10 Fuse 10 (On Fuse Panel B)
- SB19 Fuse 19 (On Fuse Panel B)
- SB20 Fuse 20 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- SB30 Fuse 30 (On Fuse Panel B)
- T73a 73-Pin Connector
- T73b 73-Pin Connector

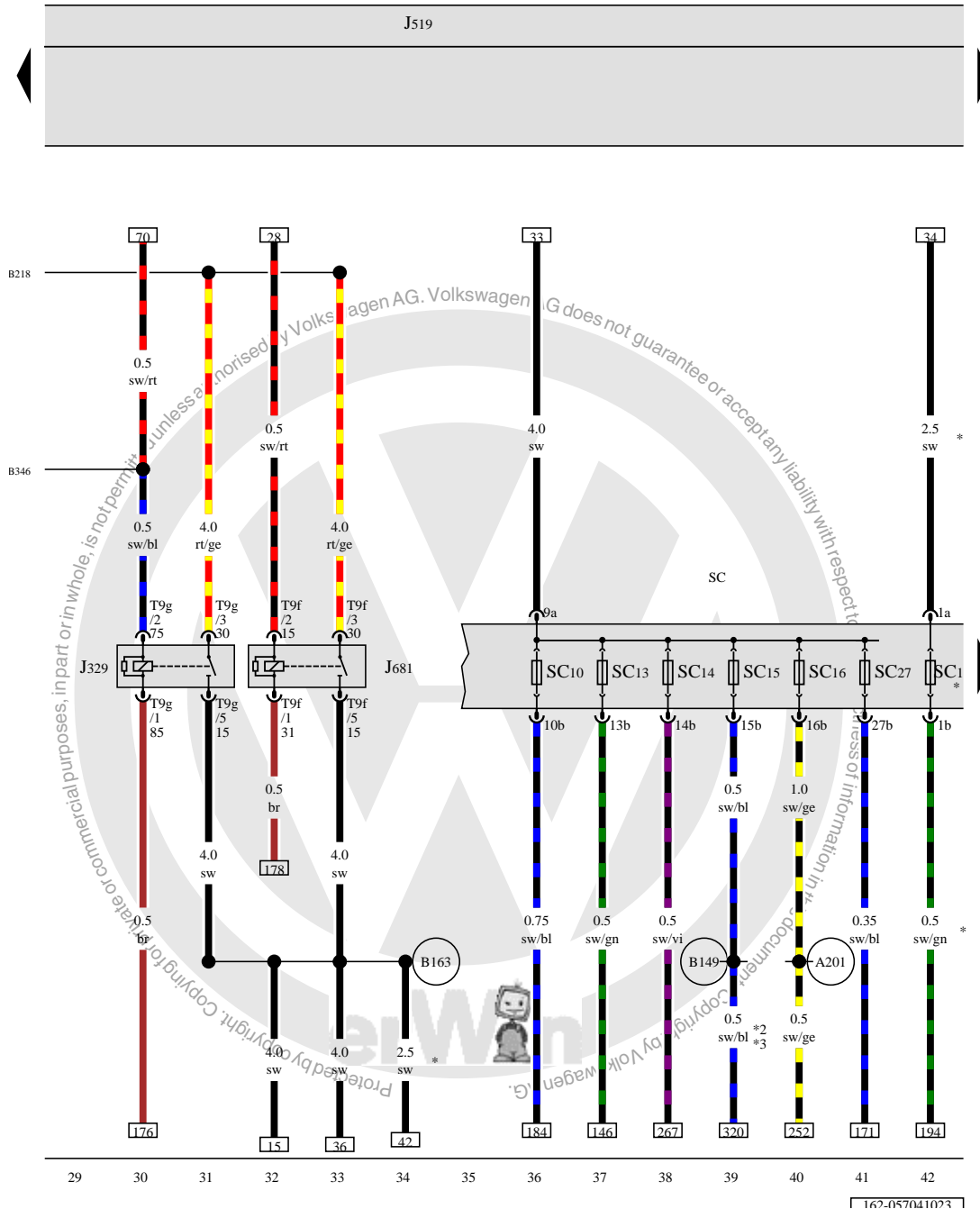
- 508 Terminal 30 Threaded Connection (On E-Box)
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- * Through May 2013
- *2 Diameter Depends on Equipment
- *3 Depending on Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Ignition/Starter Switch, Vehicle Electrical System Control Module, Terminal 50 Power Supply Relay, Converter Box

- B Starter
- D Ignition/Starter Switch
- J519 Vehicle Electrical System Control Module
- J682 Terminal 50 Power Supply Relay
- J935 Converter Box
- T9c 9-Pin Connector
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- A15 Plus Connection (15) (in Instrument Cluster Wiring Harness)
- A33 Connection 75 (in Instrument Panel Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B239 Positive Connection 1 (50) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * Through May 2013
- *2 From June 2013
- *3 The Color of the Wires Depends on Vehicle Equipment



Terminal 15 Power Supply Relay, Vehicle Electrical System Control Module, Fuse Panel C

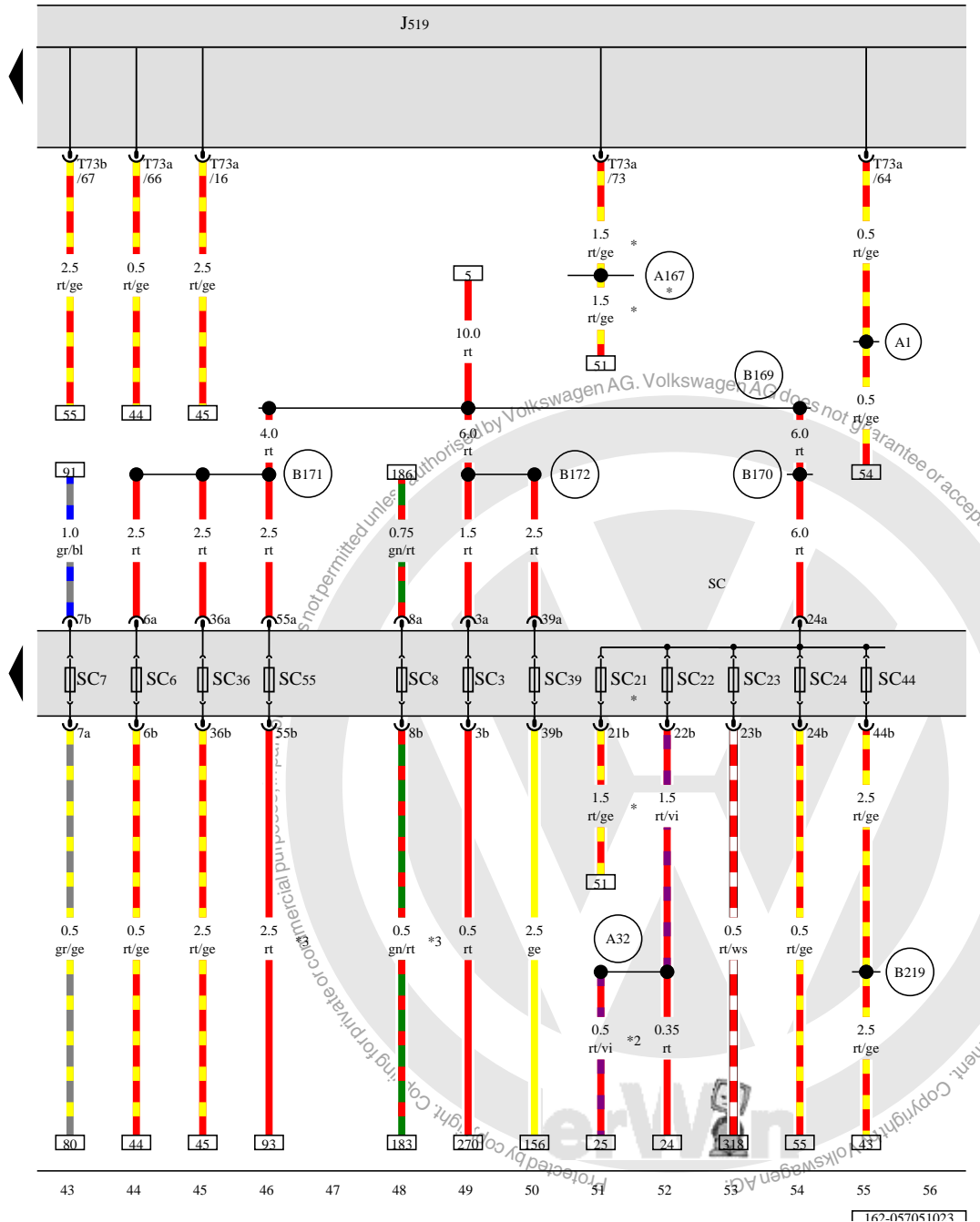
- J329 Terminal 15 Power Supply Relay
- J519 Vehicle Electrical System Control Module
- J681 Terminal 15 Power Supply Relay 2
- SC Fuse Panel C
- SC1 Fuse 1 (On Fuse Panel C)
- SC10 Fuse 10 (On Fuse Panel C)
- SC13 Fuse 13 (On Fuse Panel C)
- SC14 Fuse 14 (On Fuse Panel C)
- SC15 Fuse 15 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC27 Fuse 27 (On Fuse Panel C)
- T9f 9-Pin Connector
- T9g 9-Pin Connector

- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B149 Positive Connection 2 (15a) (in Interior Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1

- * From June 2013
- *2 For Vehicles with a Manual Transmission
- *3 Through May 2013

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Vehicle Electrical System Control Module, Fuse Panel C

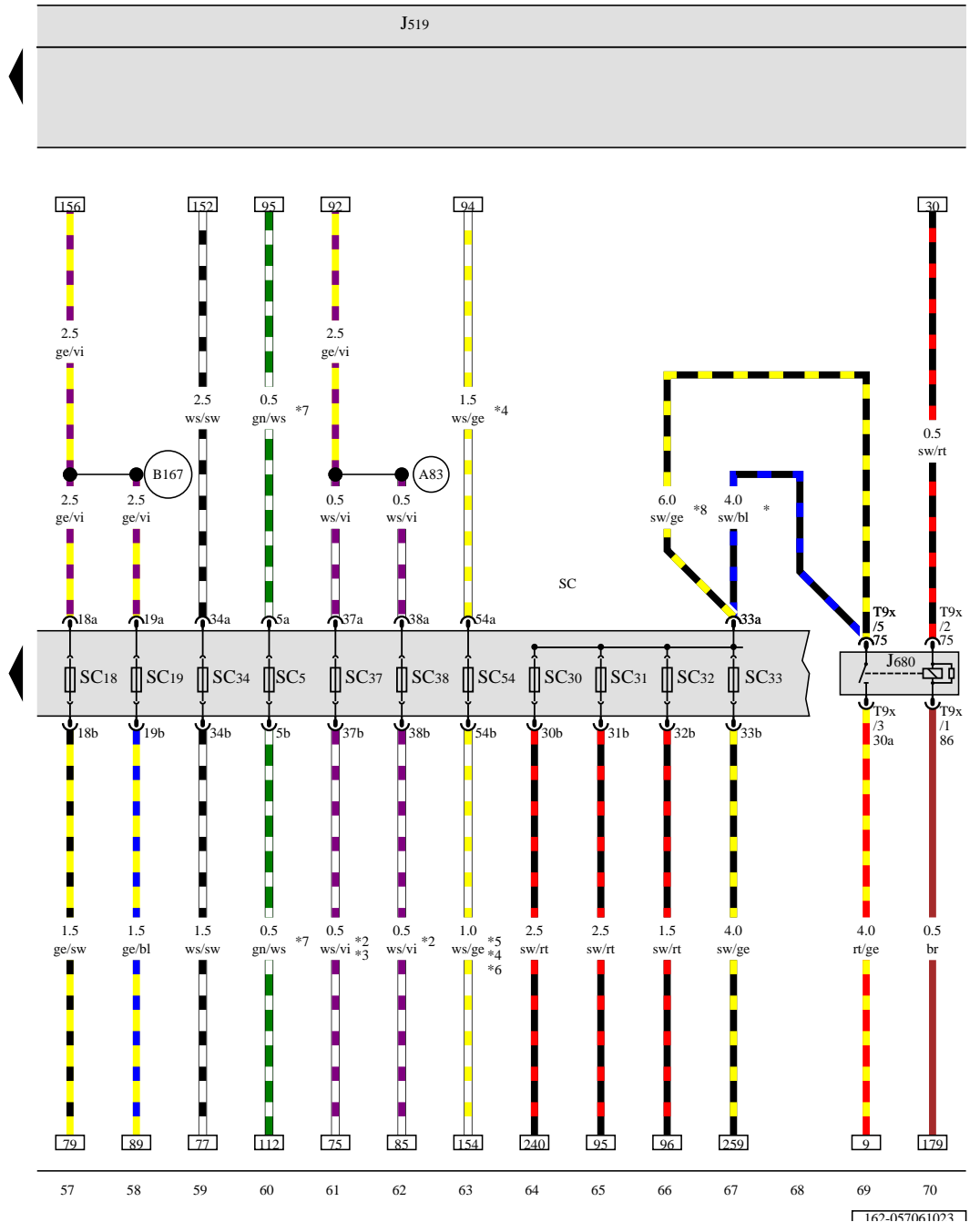


- J519 Vehicle Electrical System Control Module
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC6 Fuse 6 (On Fuse Panel C)
- SC7 Fuse 7 (On Fuse Panel C)
- SC8 Fuse 8 (On Fuse Panel C)
- SC21 Fuse 21 (On Fuse Panel C)
- SC22 Fuse 22 (On Fuse Panel C)
- SC23 Fuse 23 (On Fuse Panel C)
- SC24 Fuse 24 (On Fuse Panel C)
- SC36 Fuse 36 (On Fuse Panel C)
- SC39 Fuse 39 (On Fuse Panel C)
- SC44 Fuse 44 (On Fuse Panel C)
- SC55 Fuse 55 (On Fuse Panel C)
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- A1 Positive Connection 30a (in Instrument Panel Wiring Harness)
- A32 Positive Connection (30) (in Instrument Panel Wiring Harness)
- A167 Positive Connection 3 (30a) (in Instrument Panel Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- B171 Positive Connection 3 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B219 Positive Connection 4 (30a) (in Interior Wiring Harness)

- * From June 2013
- *2 The Color of the Wires Depends on Vehicle Equipment
- *3 Diameter Depends on Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Vehicle Electrical System Control Module, Terminal 75 Power Supply Relay 1, Fuse Panel C

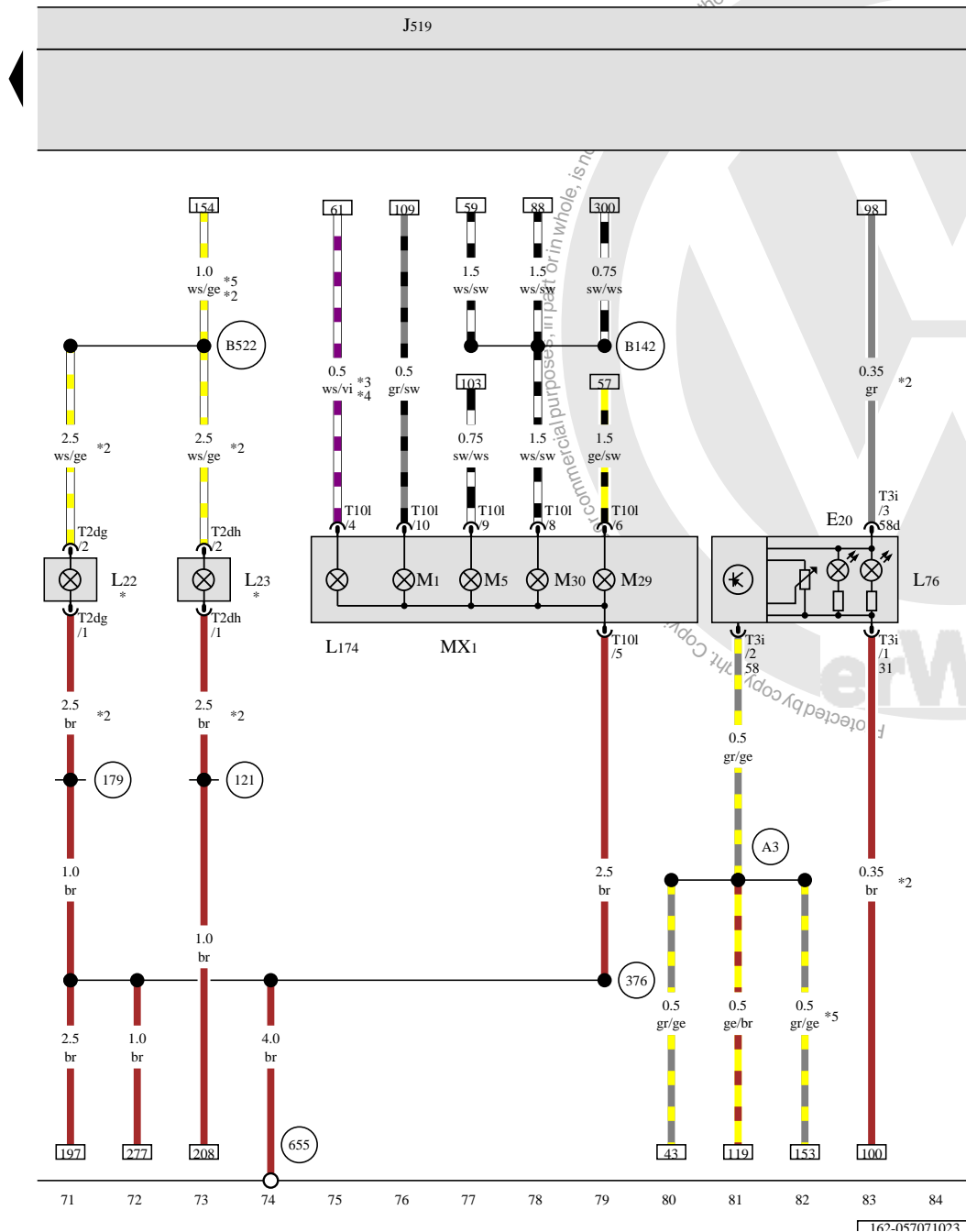
- J519 Vehicle Electrical System Control Module
- J680 Terminal 75 Power Supply Relay 1
- SC Fuse Panel C
- SC5 Fuse 5 (On Fuse Panel C)
- SC18 Fuse 18 (On Fuse Panel C)
- SC19 Fuse 19 (On Fuse Panel C)
- SC30 Fuse 30 (On Fuse Panel C)
- SC31 Fuse 31 (On Fuse Panel C)
- SC32 Fuse 32 (On Fuse Panel C)
- SC33 Fuse 33 (On Fuse Panel C)
- SC34 Fuse 34 (On Fuse Panel C)
- SC37 Fuse 37 (On Fuse Panel C)
- SC38 Fuse 38 (On Fuse Panel C)
- SC54 Fuse 54 (On Fuse Panel C)
- T9x 9-Pin Connector

A83 Daytime Running Lamps Connection (in Instrument Panel Wiring Harness)

B167 Connection 56b (in Interior Wiring Harness)

- * Through June 2012
- *2 For Vehicles with Daytime Running Lamps
- *3 The Color of the Wires Depends on Vehicle Equipment
- *4 Depending on Equipment
- *5 For USA Only
- *6 Diameter Depends on Equipment
- *7 For Vehicles with Rear Fog Lamps
- *8 From July 2012

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



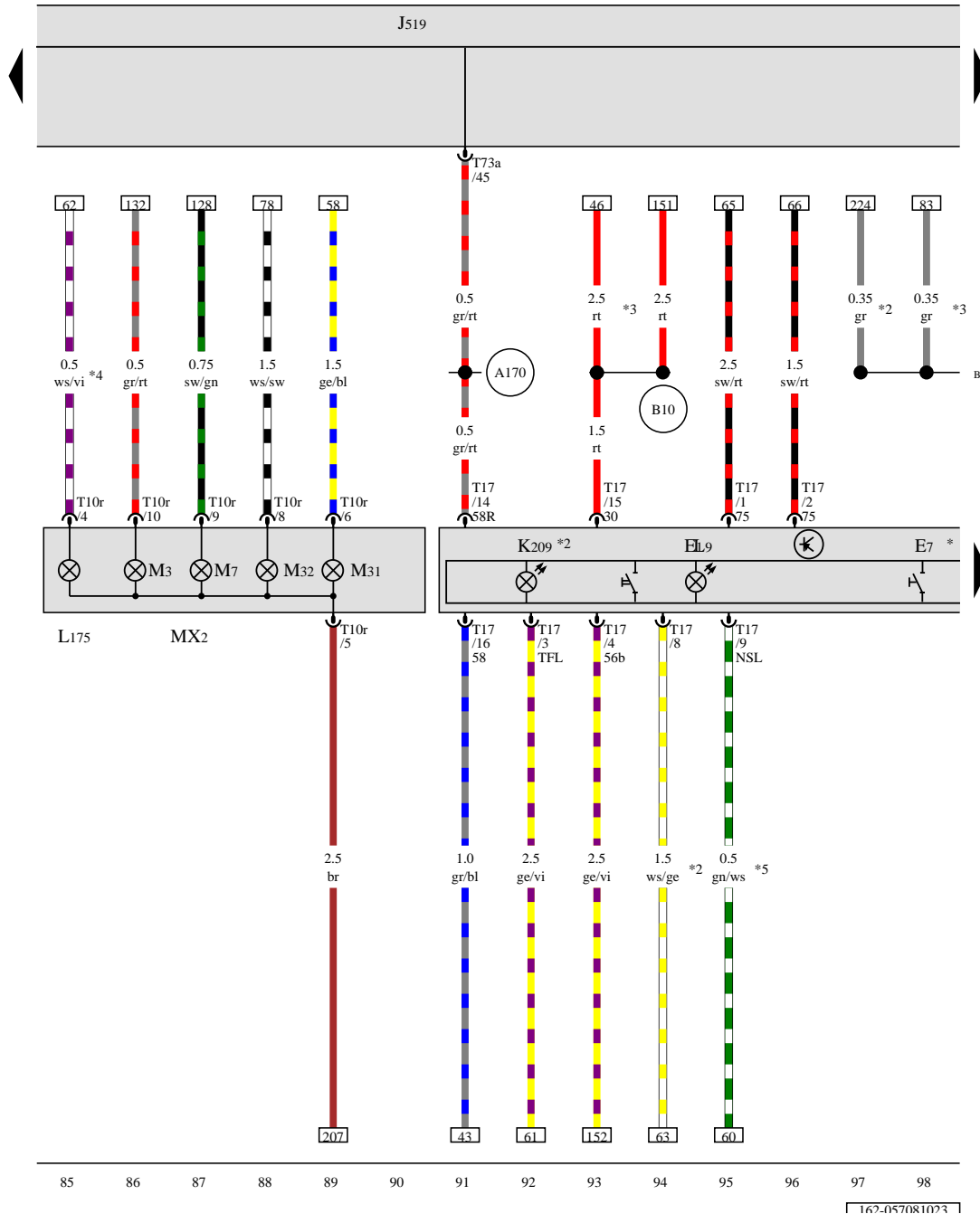
Instrument Panel and Switch Illumination Dimmer Switch,
Vehicle Electrical System Control Module, Left Front Fog
Lamp Bulb, Right Front Fog Lamp Bulb, Left Position
Lamp Bulb, Left Front Headlamp, Left Front Turn Signal
Bulb

- E20 Instrument Panel and Switch Illumination Dimmer Switch
- J519 Vehicle Electrical System Control Module
- L22 Left Front Fog Lamp Bulb
- L23 Right Front Fog Lamp Bulb
- L76 Push Button Illumination Bulb
- L174 Left Daytime Running Lamp Bulb
- M1 Left Position Lamp Bulb
- MX1 Left Front Headlamp
- M5 Left Front Turn Signal Bulb
- M29 Left Low Beam Headlamp Bulb
- M30 Left High Beam Headlamp Bulb
- T2dg 2-Pin Connector
- T2dh 2-Pin Connector
- T3i 3-Pin Connector
- T10i 10-Pin Connector

- 121 Ground Connection 2 (in Right Front Wiring Harness)
- 179 Ground Connection (in Left Headlamp Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 655 Ground Connection on Left Headlamp
- A3 Positive Connection (58) (in Instrument Panel Wiring Harness)
- B142 Positive Connection 2 (56a) (in Interior Wiring Harness)
- B522 Fog Lamp Connection (in Main Wiring Harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

- * Depending on Equipment
- *2 Diameter Depends on Equipment
- *3 For Vehicles with Daytime Running Lamps
- *4 The Color of the Wires Depends on Vehicle Equipment
- *5 For USA Only



Light Switch, Fog Lamp Switch, Vehicle Electrical System Control Module, Automatic Light Control Indicator Lamp, Right Front Headlamp, Right Position Lamp Bulb, Right Front Turn Signal Bulb

- E1 Light Switch
- E7 Fog Lamp Switch
- J519 Vehicle Electrical System Control Module
- K209 Automatic Light Control Indicator Lamp
- L9 Headlamp Switch Illumination Bulb
- L175 Right Daytime Running Lamp Bulb
- MX2 Right Front Headlamp
- M3 Right Position Lamp Bulb
- M7 Right Front Turn Signal Bulb
- M31 Right Low Beam Headlamp Bulb
- M32 Right High Beam Headlamp Bulb
- T10r 10-Pin Connector
- T17 17-Pin Connector
- T73a 73-Pin Connector

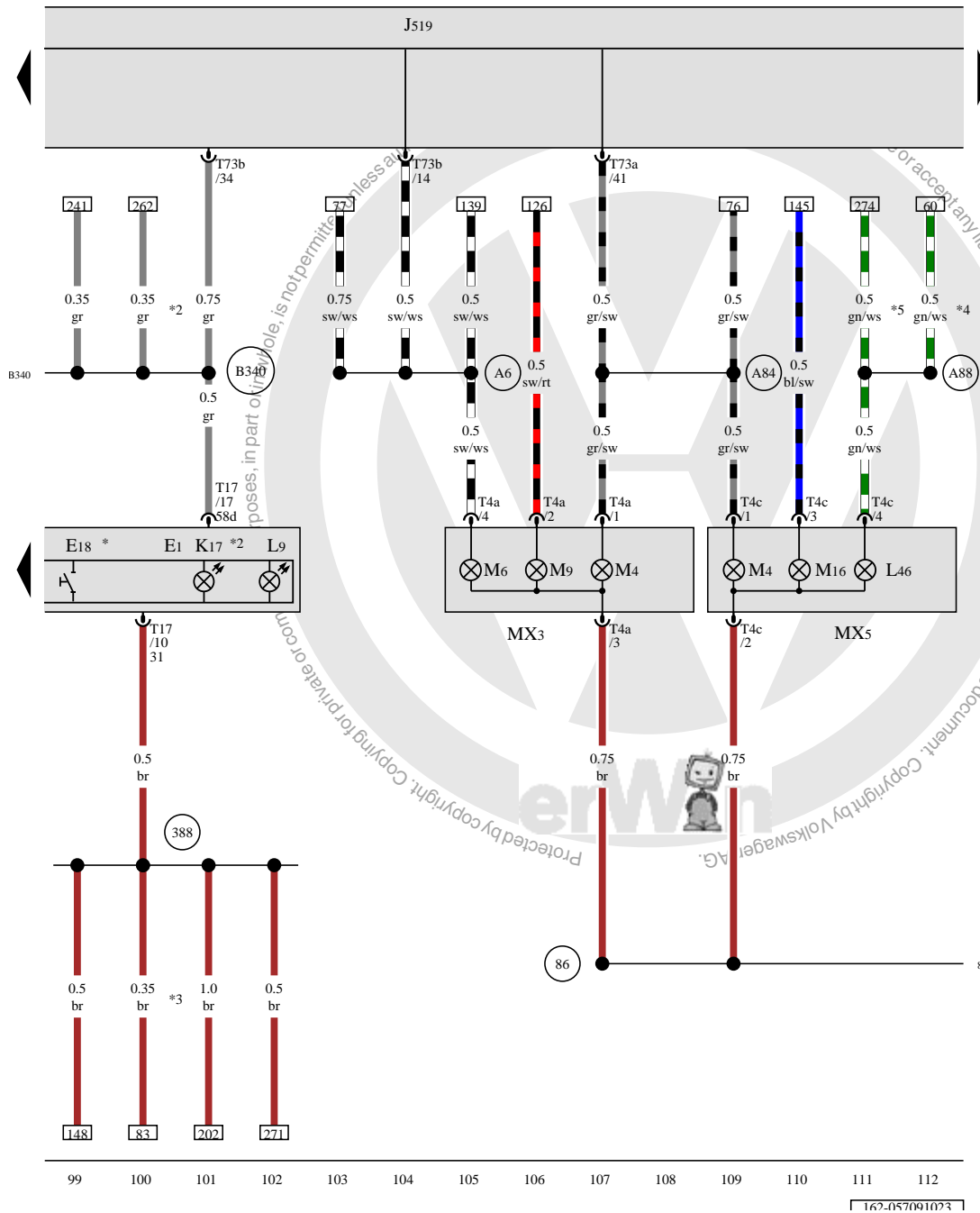
A170 Connection 58R (in Instrument Panel Wiring Harness) 2

B10 Positive Connection (30) (in Light Switch Wiring Harness)

B340 Connection 58d (in Main Wiring Harness) 1

- * If Available
- *2 Depending on Equipment
- *3 Diameter Depends on Equipment
- *4 For Vehicles with Daytime Running Lamps
- *5 For Vehicles with Rear Fog Lamps

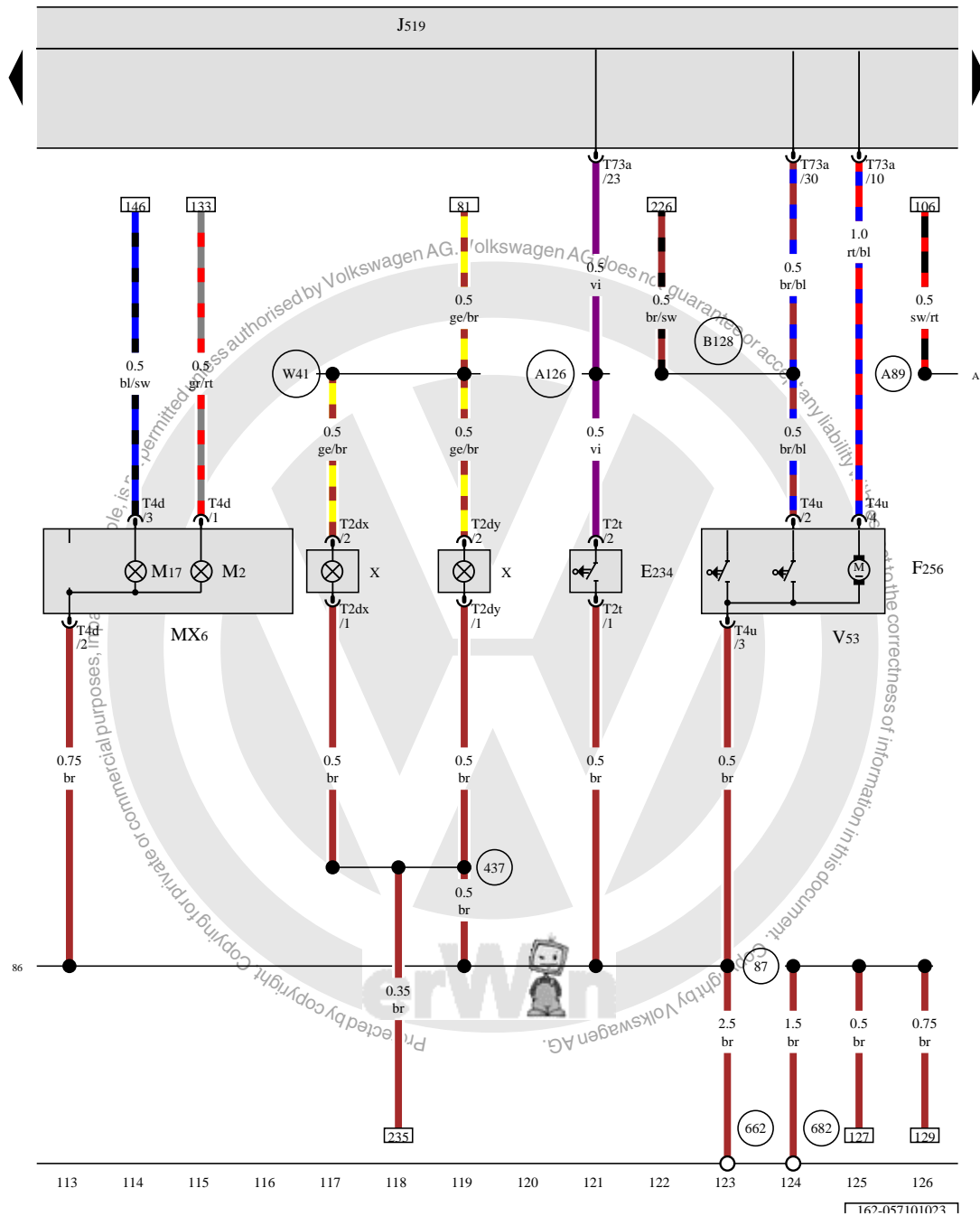
ws = white
sw = black
ro = red
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br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
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or = orange
rs = pink



Light Switch, Rear Fog Lamp Switch, Vehicle Electrical System Control Module, Fog Lamp Indicator Lamp, Left Rear Fog Lamp Bulb, Left Tail Lamp, Left Rear Turn Signal Bulb, Left Brake Lamp Bulb, Left Back-Up Lamp Bulb

- E1 Light Switch
- E18 Rear Fog Lamp Switch
- J519 Vehicle Electrical System Control Module
- K17 Fog Lamp Indicator Lamp
- L9 Headlamp Switch Illumination Bulb
- L46 Left Rear Fog Lamp Bulb
- MX3 Left Tail Lamp
- M4 Left Tail Lamp Bulb
- MX5 Left Tail Lamp 2
- M6 Left Rear Turn Signal Bulb
- M9 Left Brake Lamp Bulb
- M16 Left Back-Up Lamp Bulb
- T4a 4-Pin Connector
- T4c 4-Pin Connector
- T17 17-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- 86 Ground Connection 1 (in Rear Wiring Harness)
- 388 Ground Connection 23 (in Main Wiring Harness)
- A6 Left Turn Signal Positive Connection (in Instrument Panel Wiring Harness)
- A84 Connection 58L (in Instrument Panel Wiring Harness)
- A88 Fog Lamp Connection (in Instrument Panel Wiring Harness)
- B340 Connection 58d (in Main Wiring Harness) 1
- * If Available
- *2 Depending on Equipment
- *3 Diameter Depends on Equipment
- *4 For Vehicles with Rear Fog Lamps
- *5 For Vehicles Without US Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
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 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

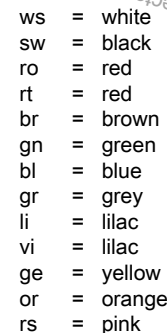


Release Button in Rear Lid Handle, Rear Lid Lock Unit, Vehicle Electrical System Control Module, Right Back-Up Lamp Bulb, Rear Lid Central Locking System Motor, License Plate Lamp

- E234 Release Button in Rear Lid Handle
- F256 Rear Lid Lock Unit
- J519 Vehicle Electrical System Control Module
- M2 Right Tail Lamp Bulb
- MX6 Right Tail Lamp 2
- M17 Right Back-Up Lamp Bulb
- T2dx 2-Pin Connector
- T2dy 2-Pin Connector
- T2t 2-Pin Connector
- T4d 4-Pin Connector
- T4u 4-Pin Connector
- T73a 73-Pin Connector
- V53 Rear Lid Central Locking System Motor
- X License Plate Lamp

- 86 Ground Connection 1 (in Rear Wiring Harness)
- 87 Ground Connection 2 (in Rear Wiring Harness)
- 437 Ground Connection (in License Plate Lamp Wiring Harness)
- 662 Ground Connection in Left Rear Side Panel
- 682 Ground Connection 2 in Right Rear Side Panel
- A89 Connection 54 (in Instrument Panel Wiring Harness) 2
- A126 Rear Lid Contact Switch Connection (in Instrument Panel Wiring Harness)
- B128 Luggage Compartment Lamp Connection (in Interior Wiring Harness)
- W41 Positive Connection (58) (in License Plate Lamp Wiring Harness)

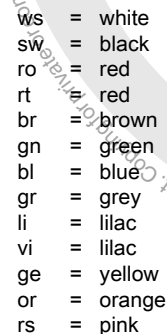
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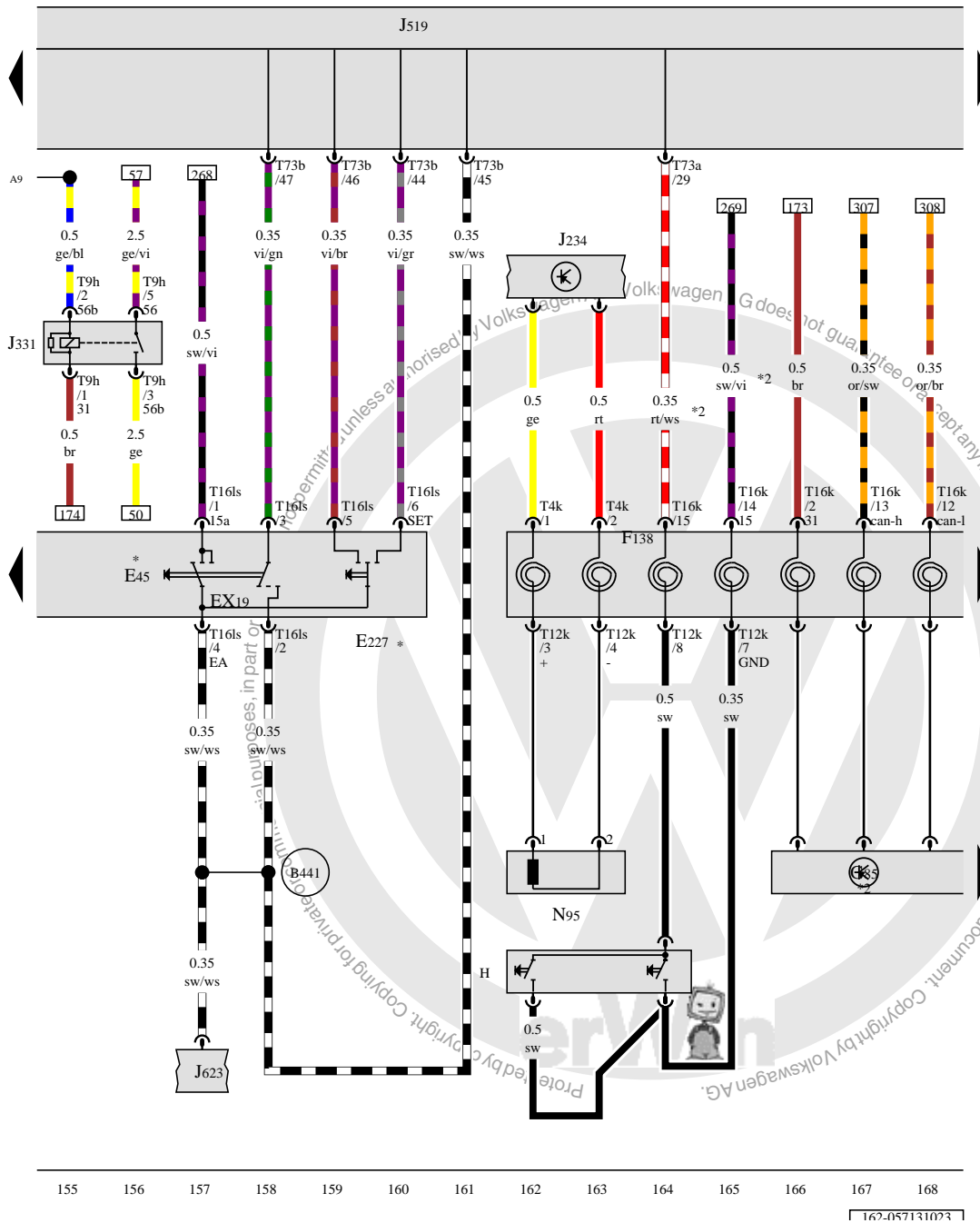
| | |
|------|---|
| J519 | Vehicle Electrical System Control Module |
| L131 | Driver Exterior Rearview Mirror Turn Signal Bulb |
| M2 | Right Tail Lamp Bulb |
| MX4 | Right Tail Lamp |
| M8 | Right Rear Turn Signal Bulb |
| M10 | Right Brake Lamp Bulb |
| M25 | High-Mounted Brake Lamp Bulb |
| T2dn | 2-Pin Connector |
| T2sl | 2-Pin Connector, In the Driver Exterior Rearview Mirror Housing |
| T2x | 2-Pin Connector |
| T4b | 4-Pin Connector |
| T8f | 8-Pin Connector |
| T12b | 12-Pin Connector, In the Driver Door |
| T28 | 28-Pin Connector, Left A-Pillar, Bottom |
| T32f | 32-Pin Connector, Left A-Pillar, Bottom |
| T73a | 73-Pin Connector |
| T73b | 73-Pin Connector |
| VX21 | Driver Door Lock Unit |
| V155 | Fuel Filler Door Lock Motor |

- | | |
|------|--|
| 107 | Ground Connection (in Exterior Mirror Wiring Harness) |
| 205 | Ground Connection (in Driver Door Wiring Harness) |
| A5 | Right Turn Signal Positive Connection (in Instrument Panel Wiring Harness) |
| A85 | Connection 58R (in Instrument Panel Wiring Harness) |
| A89 | Connection 54 (in Instrument Panel Wiring Harness) 2 |
| B214 | Central Locking Connection 1 (in Interior Wiring Harness) |
| B216 | Central Locking Connection 3 (in Interior Wiring Harness) |

* Depending on Equipment
*2 The Color of the Wires Depends on Vehicle Equipment



| | |
|-------|--|
| E2 | Turn Signal Switch |
| E4 | Headlamp Dimmer/Flasher Switch |
| EX19 | Left Steering Column Switch |
| F4 | Back-Up Lamp Switch |
| J5 | Fog Lamp Relay |
| J519 | Vehicle Electrical System Control Module |
| L132 | Front Passenger Exterior Rearview Mirror Turn Signal Bulb |
| T2fi | 2-Pin Connector |
| T2sr | 2-Pin Connector |
| T9n | 9-Pin Connector |
| T12c | 12-Pin Connector, In the Front Passenger Door |
| T16ls | 16-Pin Connector |
| T28a | 28-Pin Connector, Right A-Pillar, Bottom |
| T73a | 73-Pin Connector |
| T73b | 73-Pin Connector |
| 206 | Ground Connection (in Front Passenger Door Wiring Harness) |
| 801 | Ground Connection 2 (in Exterior Rearview Mirror Wiring Harness) |
| A9 | Positive Connection (56b) (in Instrument Cluster Wiring Harness) |
| A51 | Connection 56 (in Instrument Panel Wiring Harness) |
| A217 | Positive Connection 8 (15a) (in Instrument Panel Wiring Harness) |
| B182 | Connection Rf (in Interior Wiring Harness) |
| * | For USA Only |
| *2 | Depending on Equipment |
| *3 | For Vehicles with a Manual Transmission |
| *4 | Through May 2013 |
| *5 | Diameter Depends on Equipment |
| *6 | For Vehicles with Automatic Transmission |
| *7 | The Color of the Wires Depends on Vehicle Equipment |



Left Steering Column Switch, Cruise Control Switch, Cruise Control -Set- Button, Airbag Spiral Spring/Return Spring with Slip Ring, Steering Angle Sensor, Vehicle Electrical System Control Module

- EX19 Left Steering Column Switch
- E45 Cruise Control Switch
- E227 Cruise Control -Set- Button
- F138 Airbag Spiral Spring/Return Spring with Slip Ring
- G85 Steering Angle Sensor
- H Signal Horn Activation
- J234 Airbag Control Module
- J331 Low Beam Relay
- J519 Vehicle Electrical System Control Module
- J623 Engine/Motor Control Module
- N95 Driver Airbag Igniter
- T4k 4-Pin Connector
- T9h 9-Pin Connector
- T12k 12-Pin Connector
- T16k 16-Pin Connector
- T16ls 16-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

A9 Positive Connection (56b) (in Instrument Cluster Wiring Harness)

B441 Cruise Control Connection (in Main Wiring Harness)

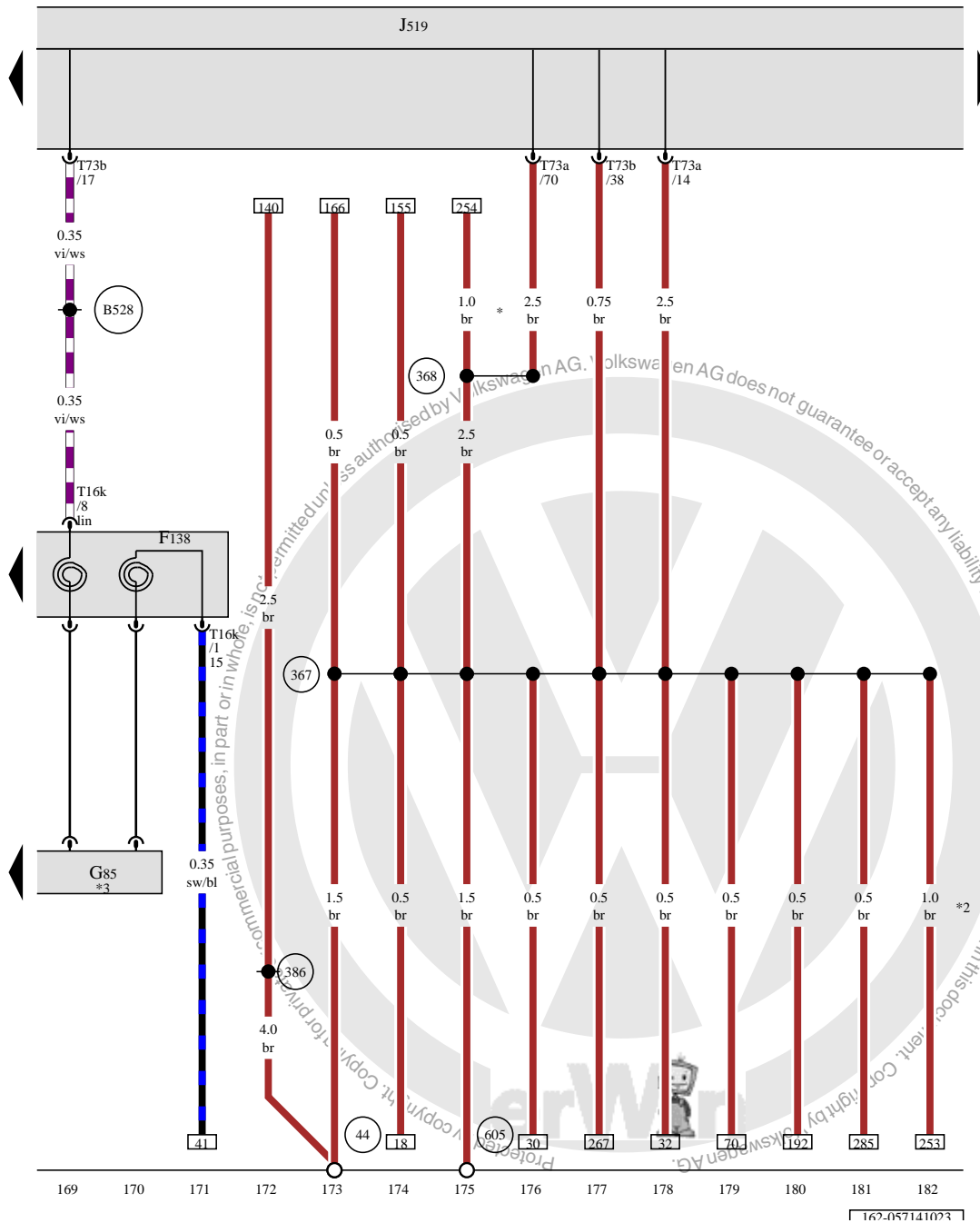
* For Vehicles with Cruise Control System

*2 Depending on Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

155 156 157 158 159 160 161 162 163 164 165 166 167 168

167-057131023



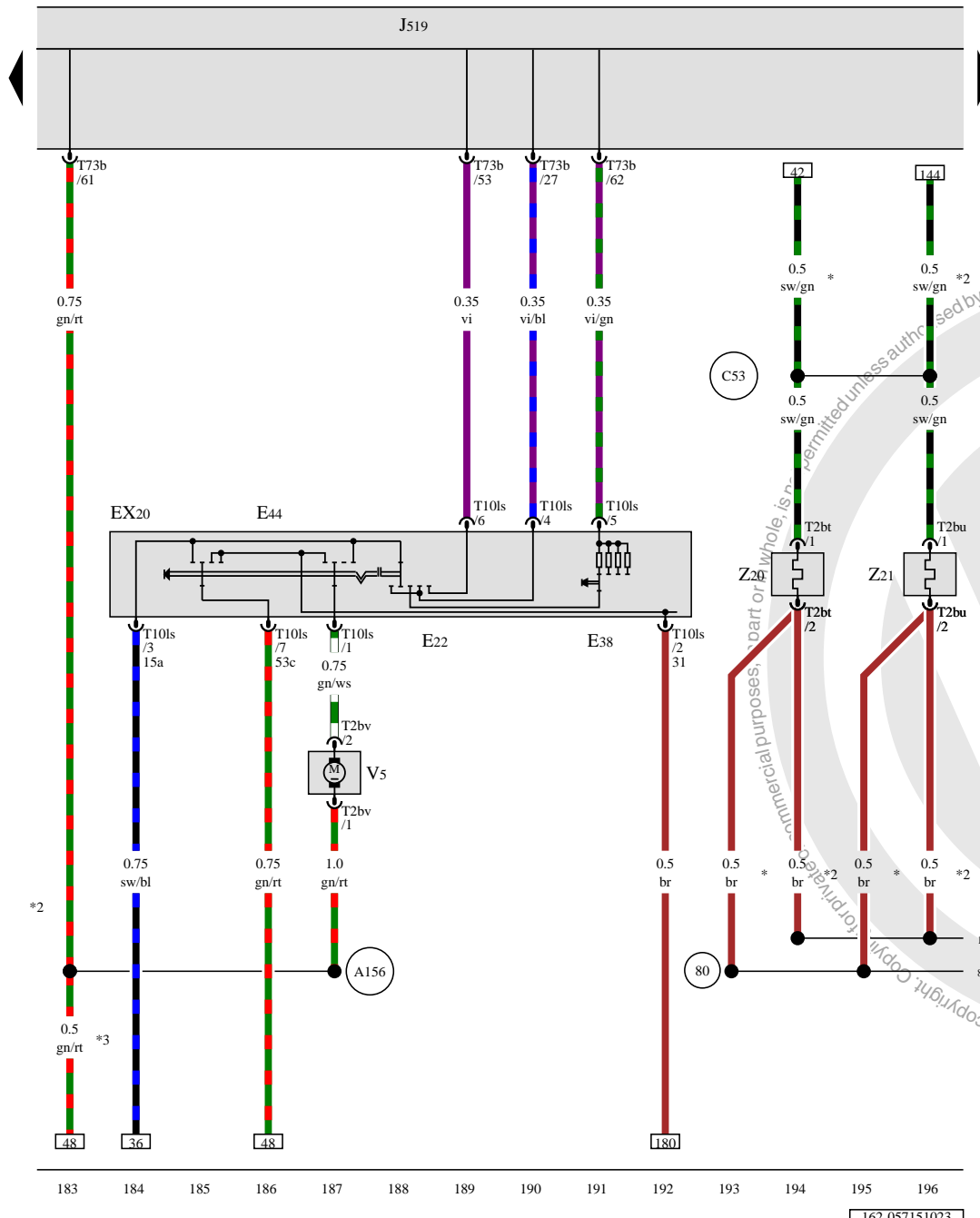
Airbag Spiral Spring/Return Spring with Slip Ring, Steering Angle Sensor, Vehicle Electrical System Control Module

- F138 Airbag Spiral Spring/Return Spring with Slip Ring
- G85 Steering Angle Sensor
- J519 Vehicle Electrical System Control Module
- T16k 16-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- 44 Ground Connection on A-Pillar, Lower Left
- 367 Ground Connection 2 (in Main Wiring Harness)
- 368 Ground Connection 3 (in Main Wiring Harness)
- 386 Ground Connection 21 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- B528 LIN Bus Connection 1 (in Main Wiring Harness)

- * Through May 2013
- *2 From June 2013
- *3 Depending on Equipment

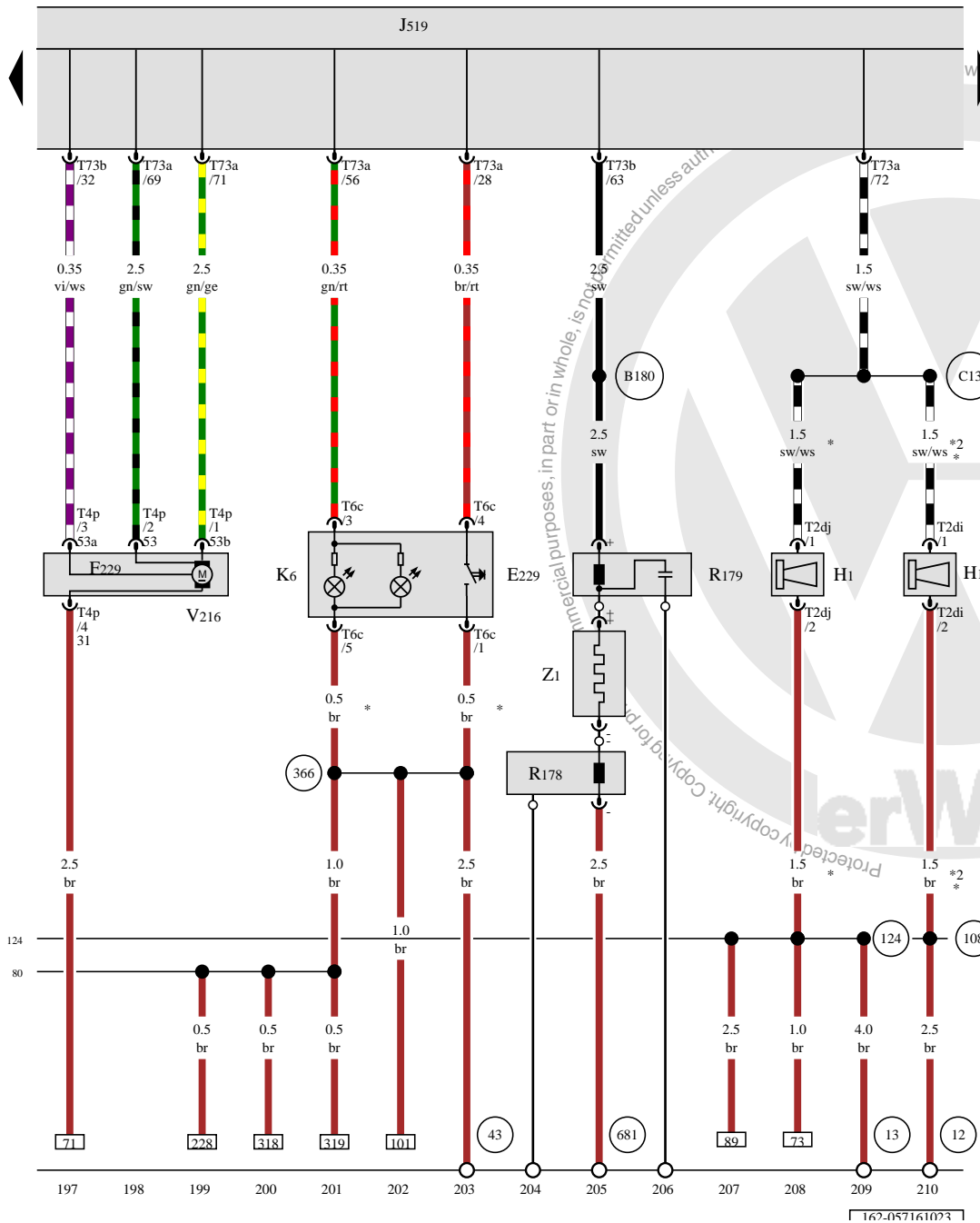
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Windshield Wiper Intermittent Mode Switch, Windshield and Headlamp Washer Pump Switch, Vehicle Electrical System Control Module, Left Washer Nozzle Heater, Right Washer Nozzle Heater

- EX20 Right Steering Column Switch
- E22 Windshield Wiper Intermittent Mode Switch
- E38 Windshield Wiper Intermittent Regulator
- E44 Windshield and Headlamp Washer Pump Switch
- J519 Vehicle Electrical System Control Module
- T2bt 2-Pin Connector
- T2bu 2-Pin Connector
- T2bv 2-Pin Connector
- T10ls 10-Pin Connector
- T73b 73-Pin Connector
- V5 Windshield Washer Pump
- Z20 Left Washer Nozzle Heater
- Z21 Right Washer Nozzle Heater
- 80 Ground Connection 1 (in Instrument Cluster Wiring Harness)
- 124 Ground Connection (in Right Engine/Motor Compartment Wiring Harness)
- A156 Connection 53c (in Instrument Panel Wiring Harness)
- C53 Positive Connection (X) (in Heated Spray Nozzle Wiring Harness)
- * From June 2013
- *2 Through May 2013
- *3 Diameter Depends on Equipment

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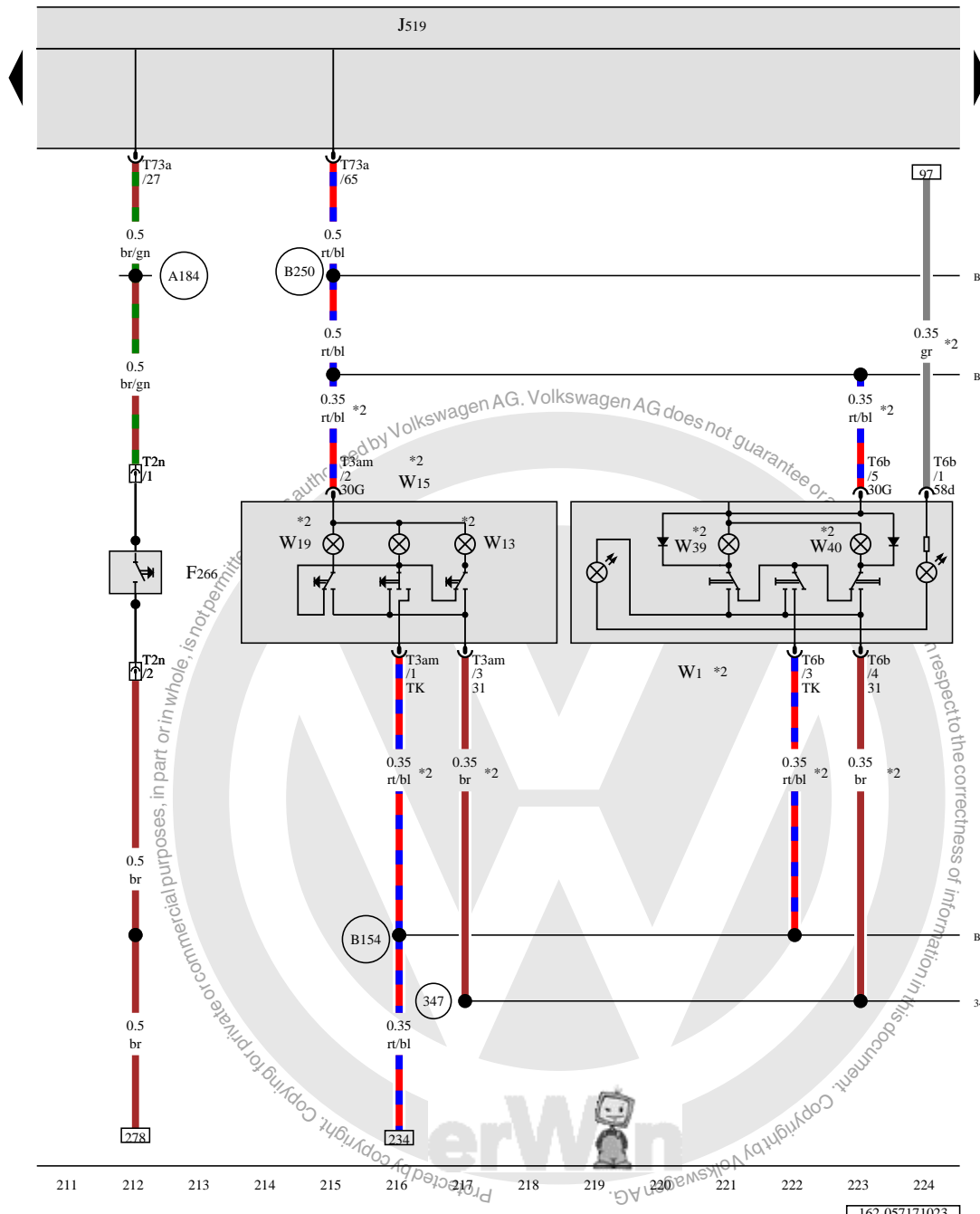


Emergency Flasher Button, Signal Horn and Dual Tone Horn, Vehicle Electrical System Control Module, Emergency Flasher Indicator Lamp, Driver Windshield Wiper Motor, Rear Window Defogger

- E229 Emergency Flasher Button
- F229 Windshield Wiper Stop Switch
- H1 Signal Horn and Dual Tone Horn
- J519 Vehicle Electrical System Control Module
- K6 Emergency Flasher Indicator Lamp
- R178 Fm Frequency Filter in Negative Wire
- R179 Fm Frequency Filter in Positive Wire
- T2di 2-Pin Connector
- T2dj 2-Pin Connector
- T4p 4-Pin Connector
- T6c 6-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- V216 Driver Windshield Wiper Motor
- Z1 Rear Window Defogger
- 12 Ground Connection in Engine/Motor Compartment, Left
- 13 Ground Connection in Engine/Motor Compartment, Right
- 43 Ground Connection on A-Pillar, Lower Right
- 80 Ground Connection 1 (in Instrument Cluster Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 124 Ground Connection (in Right Engine/Motor Compartment Wiring Harness)
- 366 Ground Connection 1 (in Main Wiring Harness)
- 681 Ground Connection 1 in Right Rear Side Panel
- B180 Rear Window Defogger Connection (in Interior Wiring Harness)
- C13 Positive Connection (in Dual Tone Horn Wiring Harness)

ws = white
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 ro = red
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 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

* Diameter Depends on Equipment
 *2 For Vehicles with Dual Tone Horn

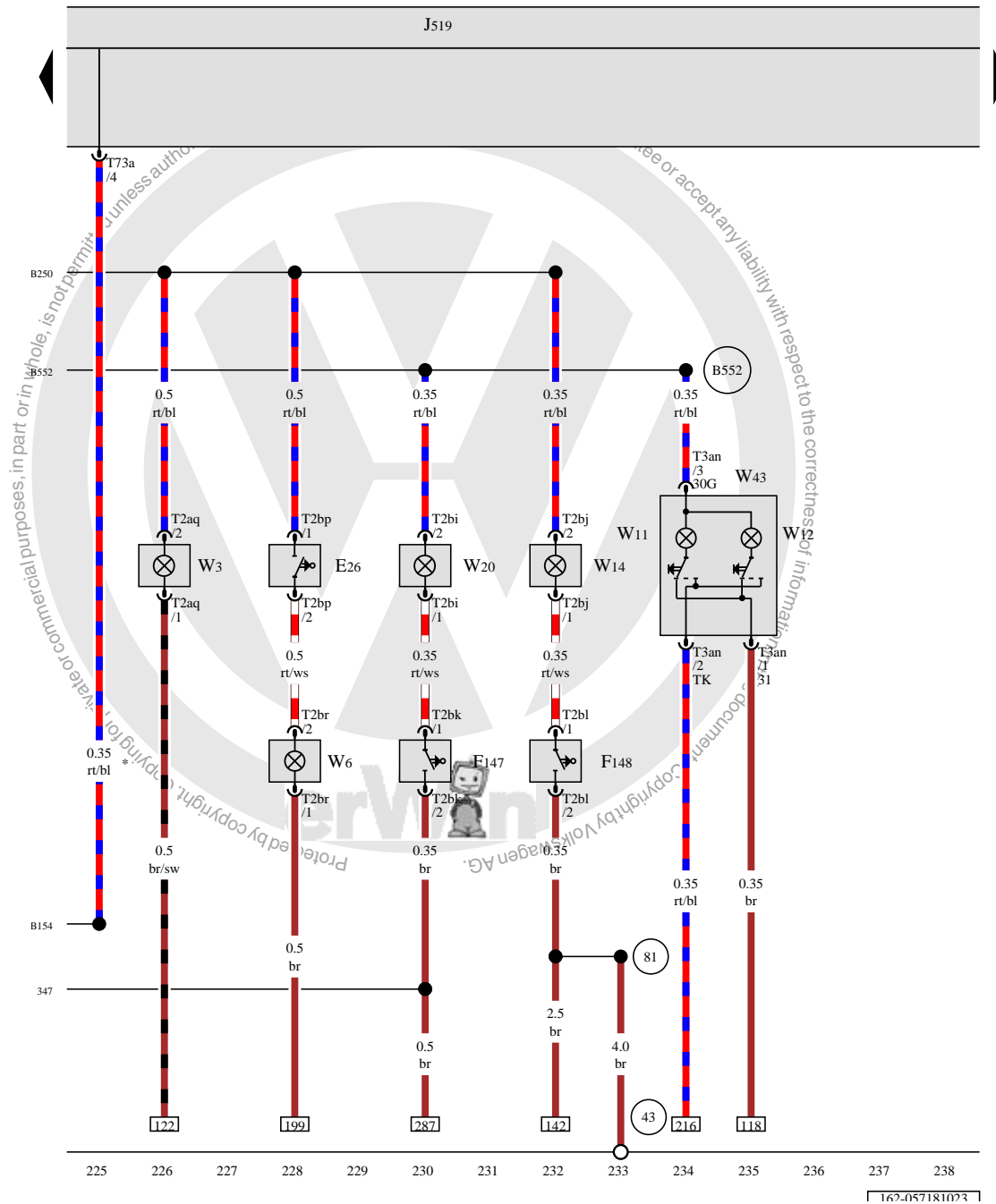


Engine Hood Contact Switch, Vehicle Electrical System Control Module, Front Interior Lamp, Front Passenger Reading Lamp, Interior Lamp with Delay Switch, Driver Reading Lamp, Left Center Reading Lamp, Right Center Reading Lamp

- F266 Engine Hood Contact Switch
- J519 Vehicle Electrical System Control Module
- T2n 2-Pin Connector, Near the Headlamps
- T3am 3-Pin Connector
- T6b 6-Pin Connector
- T73a 73-Pin Connector
- W1 Front Interior Lamp
- W13 Front Passenger Reading Lamp
- W15 Interior Lamp with Delay Switch
- W19 Driver Reading Lamp
- W39 Left Center Reading Lamp
- W40 Right Center Reading Lamp

- 347 Ground Connection (in Roof Wiring Harness)
- A184 Hood Contact Switch Connection (in Instrument Panel Wiring Harness)
- B154 Connection Tk (in Interior Wiring Harness) 1
- B250 Positive Connection (in Roof Wiring Harness)
- B552 Positive Connection 2 (in Roof Wiring Harness)
- * For Vehicles with Dual Tone Horn
- *2 Depending on Equipment

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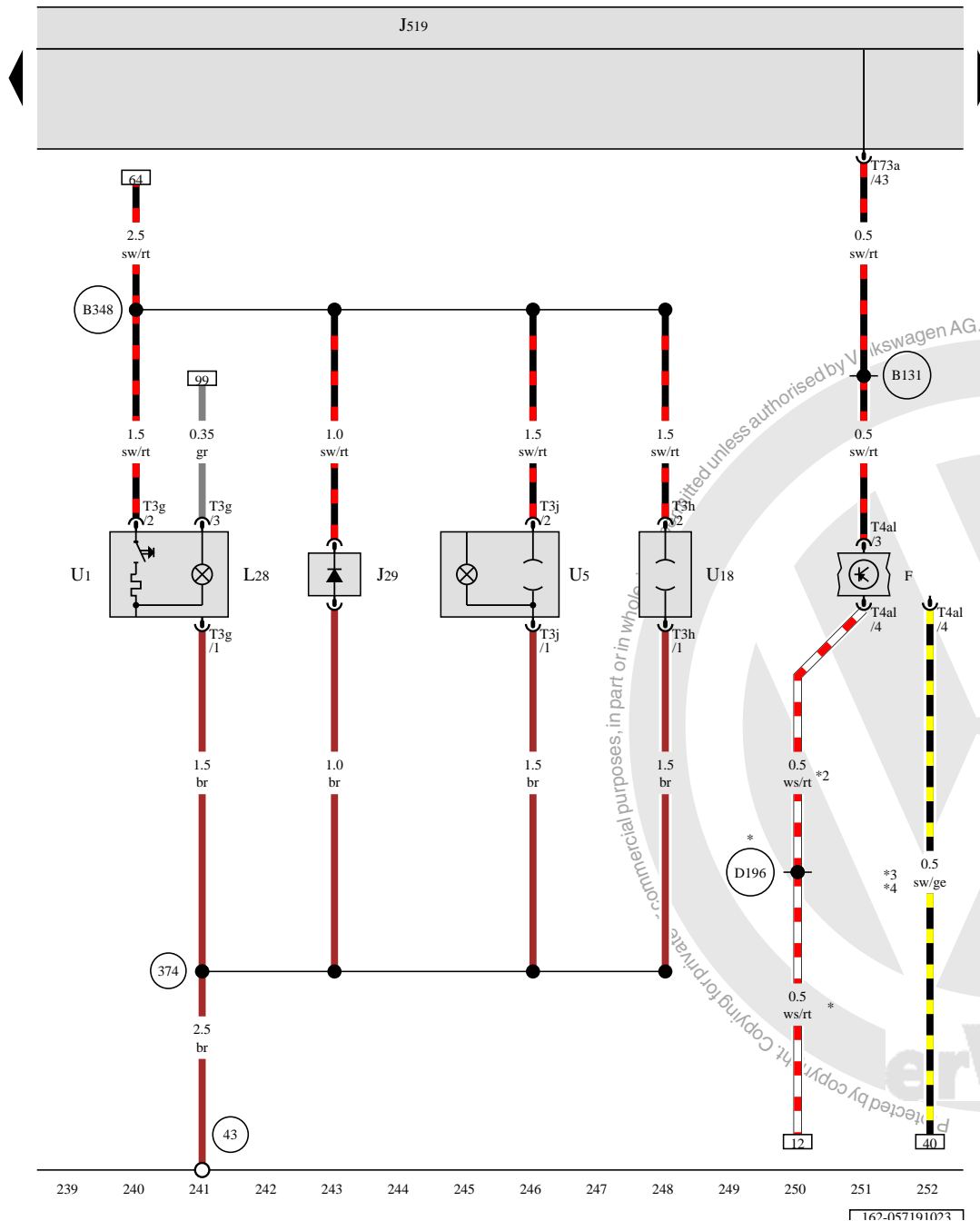
Glove Compartment Lamp Switch, Vehicle Electrical System Control Module, Luggage Compartment Lamp, Glove Compartment Lamp, Left Rear Reading Lamp, Right Rear Reading Lamp, Front Passenger Vanity Mirror Lamp, Driver Vanity Mirror Lamp, Rear Interior Lamp

- E26 Glove Compartment Lamp Switch
- F147 Driver Vanity Mirror Lamp Contact Switch
- F148 Front Passenger Vanity Mirror Lamp Contact Switch
- J519 Vehicle Electrical System Control Module
- T2aq 2-Pin Connector
- T2bi 2-Pin Connector
- T2bj 2-Pin Connector
- T2bk 2-Pin Connector
- T2bl 2-Pin Connector
- T2bp 2-Pin Connector
- T2br 2-Pin Connector
- T3an 3-Pin Connector
- T73a 73-Pin Connector
- W3 Luggage Compartment Lamp
- W6 Glove Compartment Lamp
- W11 Left Rear Reading Lamp
- W12 Right Rear Reading Lamp
- W14 Front Passenger Vanity Mirror Lamp
- W20 Driver Vanity Mirror Lamp
- W43 Rear Interior Lamp

- 43 Ground Connection on A-Pillar, Lower Right
- 81 Ground Connection 1 (in Instrument Panel Wiring Harness)
- 347 Ground Connection (in Roof Wiring Harness)
- B154 Connection Tk (in Interior Wiring Harness) 1
- B250 Positive Connection (in Roof Wiring Harness)
- B552 Positive Connection 2 (in Roof Wiring Harness)

* Depending on Equipment

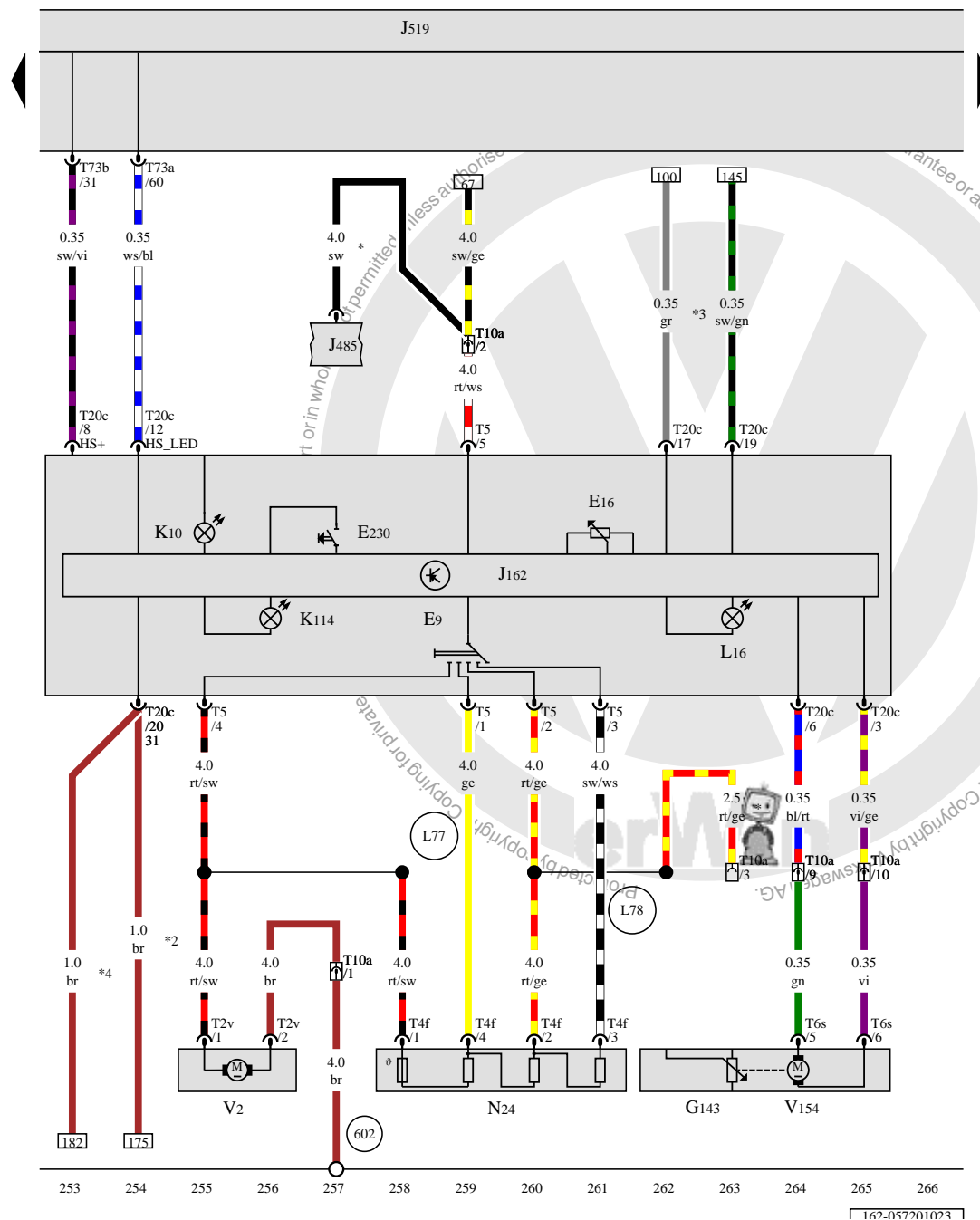
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Brake Lamp Switch, Blocking Diode, Vehicle Electrical System Control Module, Cigarette Lighter Illumination Bulb, Cigarette Lighter, 12 V Socket

- F Brake Lamp Switch
- J29 Blocking Diode
- J519 Vehicle Electrical System Control Module
- L28 Cigarette Lighter Illumination Bulb
- T3g 3-Pin Connector
- T3h 3-Pin Connector
- T3j 3-Pin Connector
- T4al 4-Pin Connector
- T73a 73-Pin Connector
- U1 Cigarette Lighter
- U5 12 V Socket
- U18 12 V Socket 2
- 43 Ground Connection on A-Pillar, Lower Right
- 374 Ground Connection 9 (in Main Wiring Harness)
- B131 Connection 54 (in Interior Wiring Harness)
- B348 Connection 1 (75A) (in Main Wiring Harness)
- D196 Connection 87A (in Engine Pre-Wiring Harness) 2
- * Depending on Equipment
- *2 For Vehicles with Automatic Transmission (DSG)
- *3 For Vehicles with a Manual Transmission
- *4 Through May 2013

ws = white
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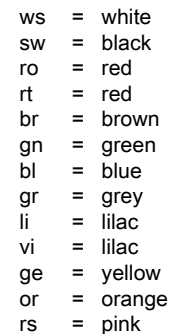
Fresh Air Blower Switch, Heater Control Module, Vehicle Electrical System Control Module, Fresh Air Blower Series Resistor with Fuse, Fresh Air Blower, Fresh/Recirculated Air Door Motor

- E9 Fresh Air Blower Switch
- E16 Heater/Heat Output Switch
- E230 Rear Window Defogger Button
- G143 Recirculation Door Motor Position Sensor
- J162 Heater Control Module
- J485 Parking Heater Operation Relay
- J519 Vehicle Electrical System Control Module
- K10 Rear Window Defogger Indicator Lamp
- K114 Fresh Air and Recirculation Mode Indicator Lamp
- L16 Fresh Air Control Illumination Bulb
- N24 Fresh Air Blower Series Resistor with Fuse
- T2v 2-Pin Connector
- T4f 4-Pin Connector
- T5 5-Pin Connector
- T6s 6-Pin Connector
- T10a 10-Pin Connector, On the Heater and A/C Unit
- T20c 20-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- V2 Fresh Air Blower
- V154 Fresh/Recirculated Air Door Motor

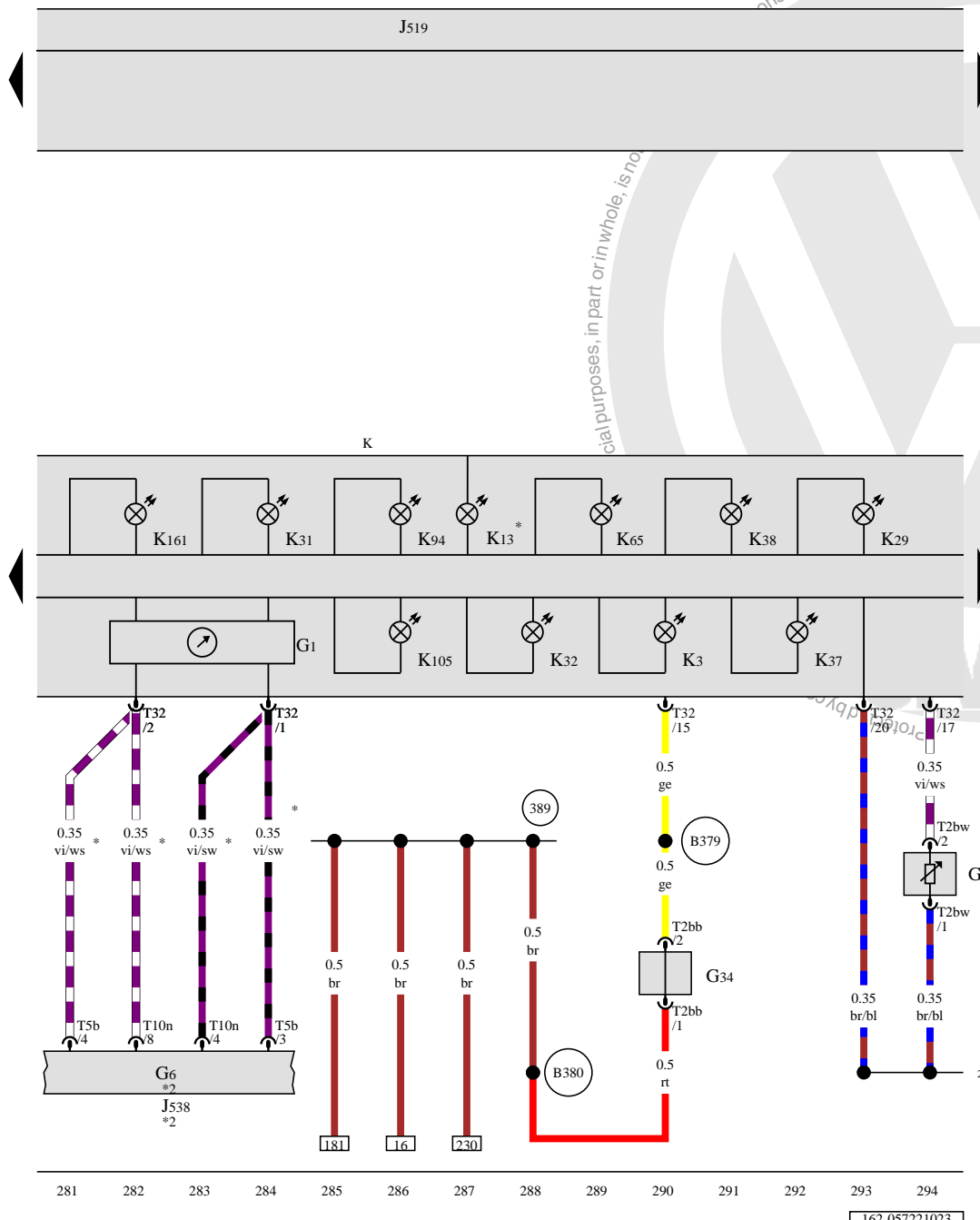
- 602 Ground Connection in Left Front Footwell
- L77 Connection (in Fresh Air Blower Wiring Harness)
- L78 Connection 1 (in Fresh Air Blower Wiring Harness)

- * Only for Vehicles with Auxiliary Coolant Heater
- *2 Through May 2013
- *3 Depending on Equipment
- *4 From June 2013

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- | | |
|------|--|
| D2 | Anti-Theft Immobilizer Reader Coil |
| F1 | Oil Pressure Switch |
| F9 | Parking Brake Indicator Lamp Switch |
| F34 | Brake Fluid Level Warning Switch |
| J285 | Instrument Cluster Control Module |
| J362 | Anti-Theft Immobilizer Control Module |
| J519 | Vehicle Electrical System Control Module |
| K | Instrument Cluster |
| K2 | Generator Indicator Lamp |
| K47 | ABS Indicator Lamp |
| K75 | Airbag Indicator Lamp |
| K132 | Electronic Power Control Malfunction Indicator Lamp |
| K149 | Engine Electronics Indicator Lamp |
| K155 | ASR/ESP Indicator Lamp |
| K169 | Shift Lock Indicator Lamp |
| T2ap | 2-Pin Connector |
| T2bm | 2-Pin Connector |
| T2w | 2-Pin Connector |
| T14 | 14-Pin Connector |
| T32 | 32-Pin Connector |
| 132 | Ground Connection 3 (in Engine/Motor Compartment Wiring Harness) |
| A199 | Positive Connection 4 (15a) (in Instrument Panel Wiring Harness) |
| * | Depending on Equipment |
| *2 | For Vehicles Without US Equipment |



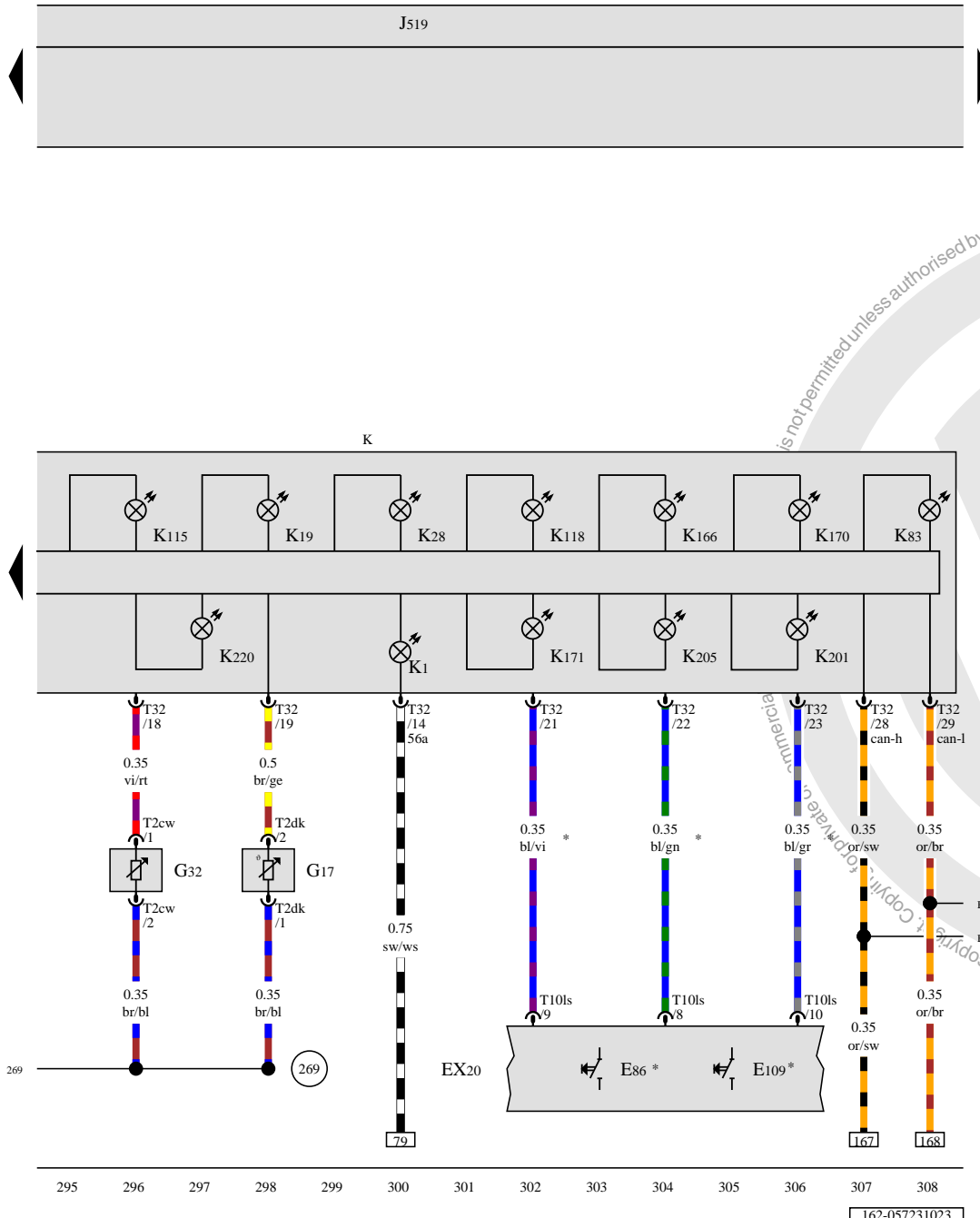
Windshield Washer Fluid Level Sensor, Left Front Brake Pad Wear Sensor, Vehicle Electrical System Control Module, Fuel Pump Control Module, Instrument Cluster, Rear Fog Lamp Indicator Lamp

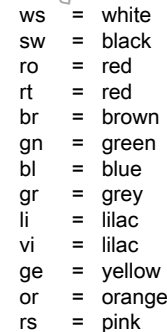
- G1 Fuel Gauge
- G6 Transfer Fuel Pump
- G33 Windshield Washer Fluid Level Sensor
- G34 Left Front Brake Pad Wear Sensor
- J519 Vehicle Electrical System Control Module
- J538 Fuel Pump Control Module
- K Instrument Cluster
- K3 Oil Pressure Indicator Lamp
- K13 Rear Fog Lamp Indicator Lamp
- K29 Glow Plug Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K32 Brake Pad Wear Indicator Lamp
- K37 Windshield Washer Fluid Level Indicator Lamp
- K38 Oil Level Indicator Lamp
- K65 Indicator Lamp for Left Turn Signal
- K94 Right Turn Signal Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K161 Electromechanical Power Steering Indicator Lamp
- T2bb 2-Pin Connector
- T2bw 2-Pin Connector
- T5b 5-Pin Connector
- T10n 10-Pin Connector
- T32 32-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 389 Ground Connection 24 (in Main Wiring Harness)
- B379 Brake Wear Indicator Connection 1 (in Main Wiring Harness)
- B380 Brake Wear Indicator Connection 2 (in Main Wiring Harness)
- * Depending on Equipment
- *2 Refer to Applicable Engine Wiring Diagram

ws = white
 sw = black
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 gn = green
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 li = lilac
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Outside Air Temperature Sensor, Engine Coolant Level Sensor, Vehicle Electrical System Control Module, Instrument Cluster

- EX20 Right Steering Column Switch
- E86 Multifunction Indicator Selection Switch
- E109 Multifunction Indicator Memory Switch
- G17 Outside Air Temperature Sensor
- G32 Engine Coolant Level Sensor
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K1 High Beam Indicator Lamp
- K19 Seat Belt Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K83 Malfunction Indicator Lamp
- K115 Anti-Theft Immobilizer System Indicator Lamp
- K118 Brake System Indicator Lamp
- K166 Door Ajar Indicator Lamp
- K170 Lamp Failure Indicator Lamp
- K171 Hood -Open- Indicator Lamp
- K201 Fuel Filler Door Lock Indicator Lamp
- K205 Daytime Running Lamp Indicator Lamp
- K220 Tire Pressure Monitoring Display Indicator Lamp
- T2cw 2-Pin Connector
- T2dk 2-Pin Connector
- T10ls 10-Pin Connector
- T32 32-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with Multifunction Display





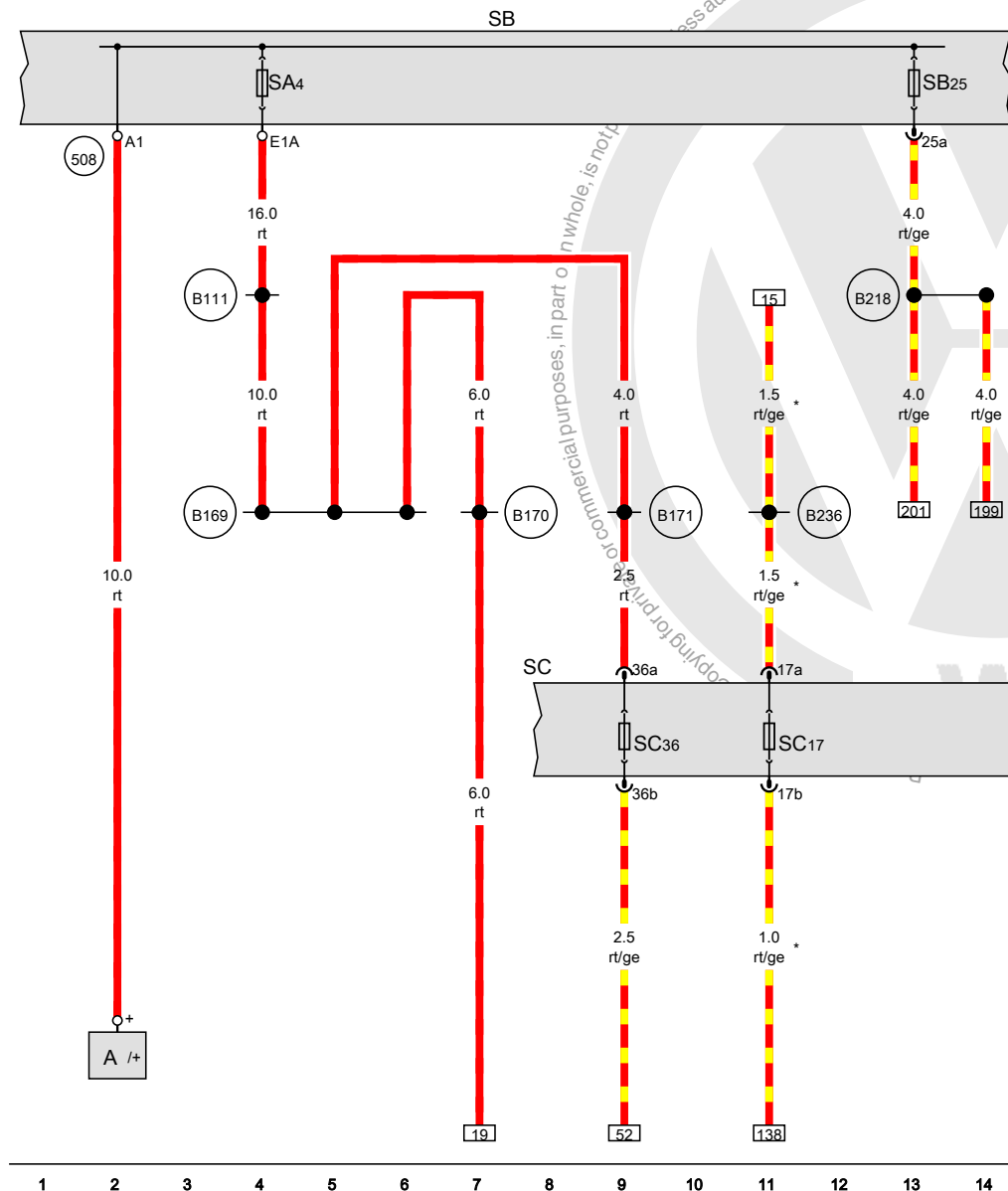
| | |
|------|--|
| J104 | ABS Control Module |
| J234 | Airbag Control Module |
| J503 | Radio/Navigation Display Unit Control Module |
| J519 | Vehicle Electrical System Control Module |
| J533 | Data Bus on Board Diagnostic Interface |
| J623 | Engine/Motor Control Module |
| J743 | Dual-Clutch Transmission Mechatronic |
| T16 | 16-Pin Connector |
| T16d | 16-Pin Connector |
| T26 | 26-Pin Connector |
| T47 | 47-Pin Connector |
| T73b | 73-Pin Connector |
| T75 | 75-Pin Connector |
| A76 | Ks-Diagnostic Lead Connection (in Instrument Panel Wiring Harness) |
| B150 | Positive Connection 2 (30a) (in Interior Wiring Harness) |
| B383 | Powertrain CAN Bus High Connection 1 (in Main Wiring Harness) |
| B390 | Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness) |
| B397 | Comfort System CAN Bus High Connection 1 (in Main Wiring Harness) |
| B406 | Comfort System CAN Bus Low Connection 1 (in Main Wiring Harness) |
| B590 | KS-Diagnostic Cable Connection (in Interior Wiring Harness) |
| * | Diagnostic Connector |
| *2 | For Vehicles with Automatic Transmission |
| *3 | For USA Only |

Convenience system , (AW0)

from June 2011



Battery, Fuse 4 (on fuse panel A), Fuse panel B, Fuse 25 (on fuse panel B), Fuse panel C



- A Battery
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SB25 Fuse 25 (on fuse panel B)
- SC Fuse panel C
- SC17 Fuse 17 (on fuse panel C)
- SC36 Fuse 36 (on fuse panel C)
- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- B218 Positive connection 6 (30) (in interior wiring harness)
- B236 Positive connection 6 (30a) (in interior wiring harness)
- Running change

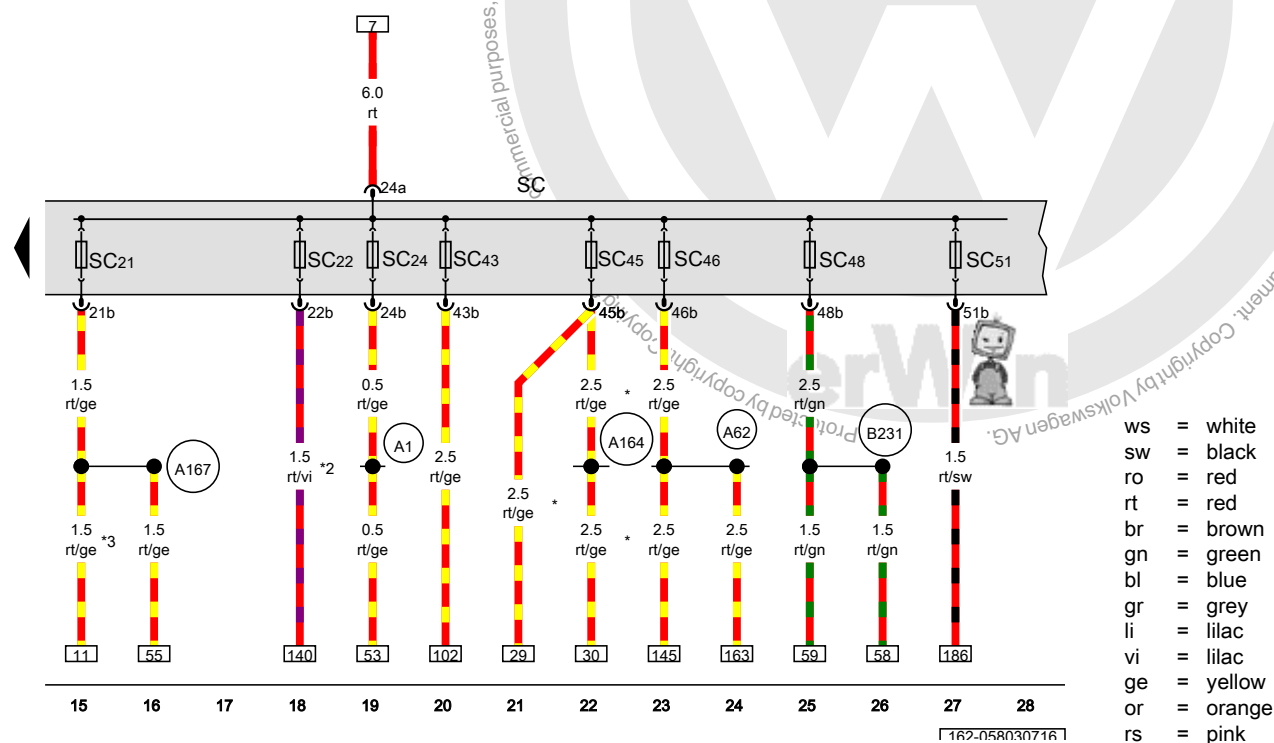
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- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Fuse panel C

| | |
|------|---------------------------|
| SC | Fuse panel C |
| SC21 | Fuse 21 (on fuse panel C) |
| SC22 | Fuse 22 (on fuse panel C) |
| SC24 | Fuse 24 (on fuse panel C) |
| SC43 | Fuse 43 (on fuse panel C) |
| SC45 | Fuse 45 (on fuse panel C) |
| SC46 | Fuse 46 (on fuse panel C) |
| SC48 | Fuse 48 (on fuse panel C) |
| SC51 | Fuse 51 (on fuse panel C) |

| | |
|------|--|
| A1 | Positive connection 30a (in instrument panel wiring harness) |
| A62 | Power window connection (in instrument panel wiring harness) |
| A164 | Positive connection 2 (30a) (in instrument panel wiring harness) |
| A167 | Positive connection 3 (30a) (in instrument panel wiring harness) |
| B231 | Positive connection 5 (30a) (in interior wiring harness) |

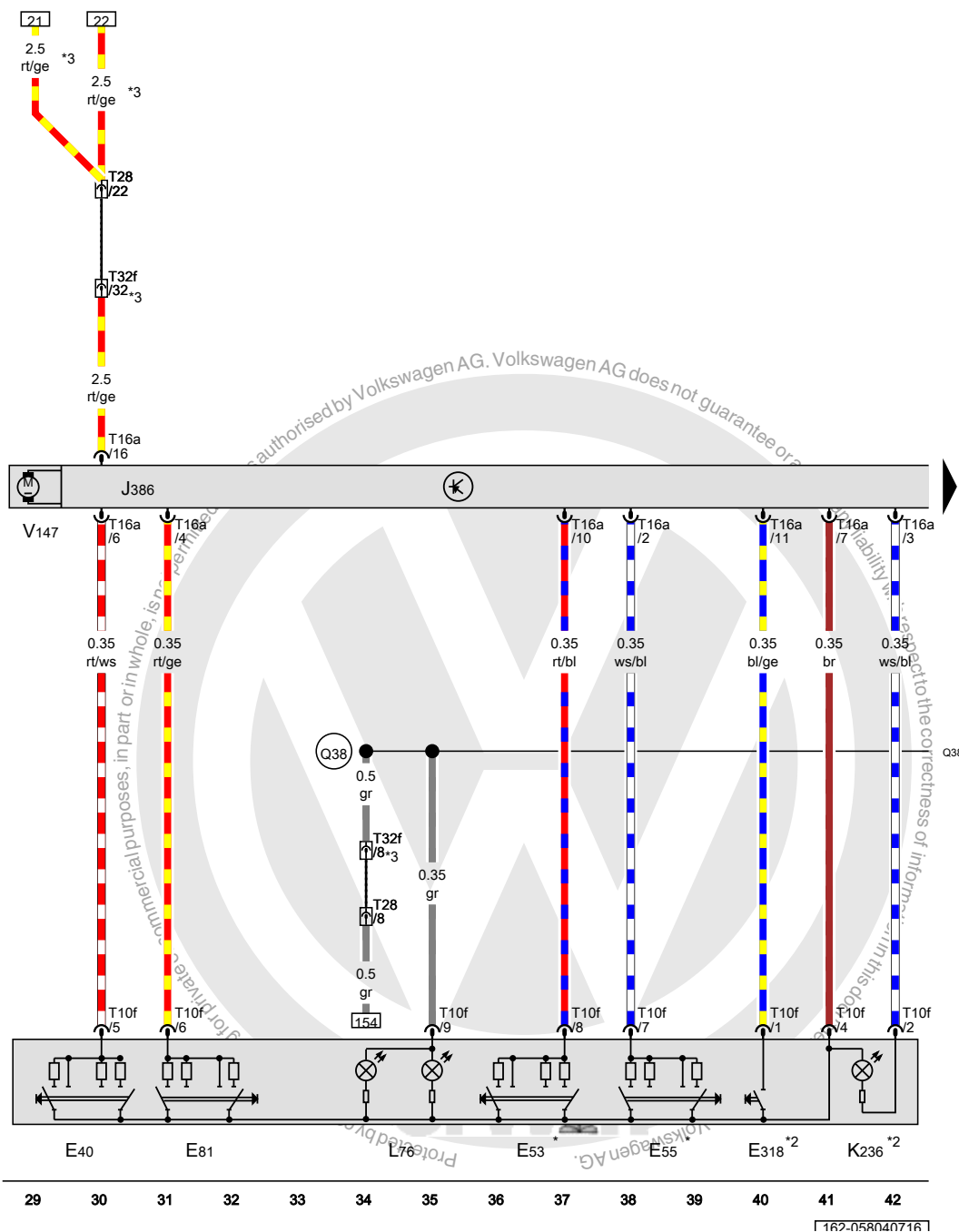
Depending on equipment
Omitted as a running change
Running change



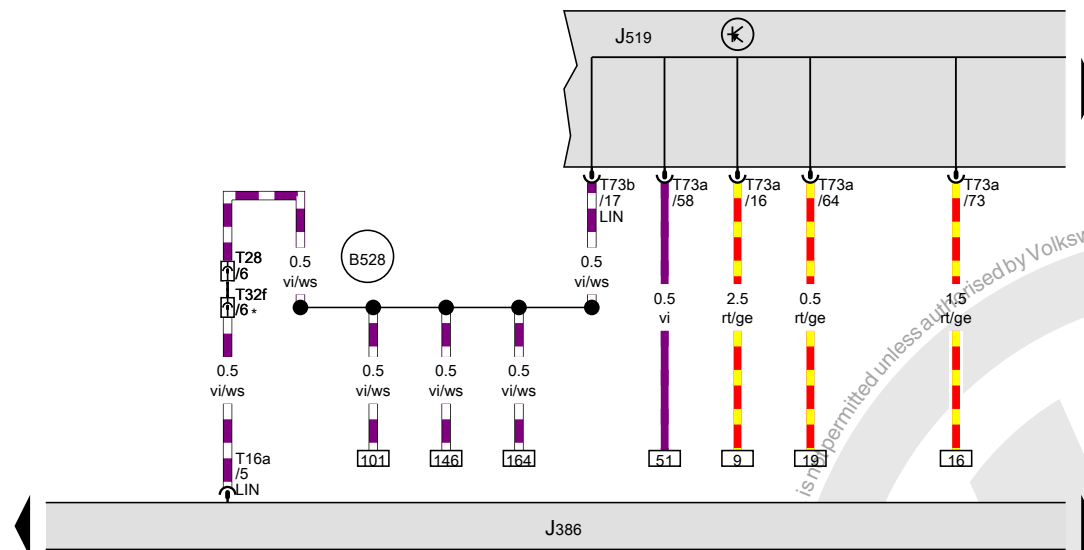
Left front window regulator switch, Left rear window regulator switch in driver door, Right rear window regulator switch in driver door, Right front power window switch in driver door, Child safety lock button, Driver door control module

- E40 Left front window regulator switch
- E53 Left rear window regulator switch in driver door
- E55 Right rear window regulator switch in driver door
- E81 Right front power window switch in driver door
- E318 Child safety lock button
- J386 Driver door control module
- K236 Child safety lock -activated- indicator lamp
- L76 Push button illumination bulb
- T10f 10-pin connector
- T16a 16-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T32f 32-pin connector, Left A-pillar, bottom
- V147 Driver window regulator motor
- Q38 Positive connection 1 (58b) (in power window wiring harness)

- * Only for vehicles with front and rear power windows
- *2 Only for vehicles with child safety lock
- *3 Depending on equipment



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



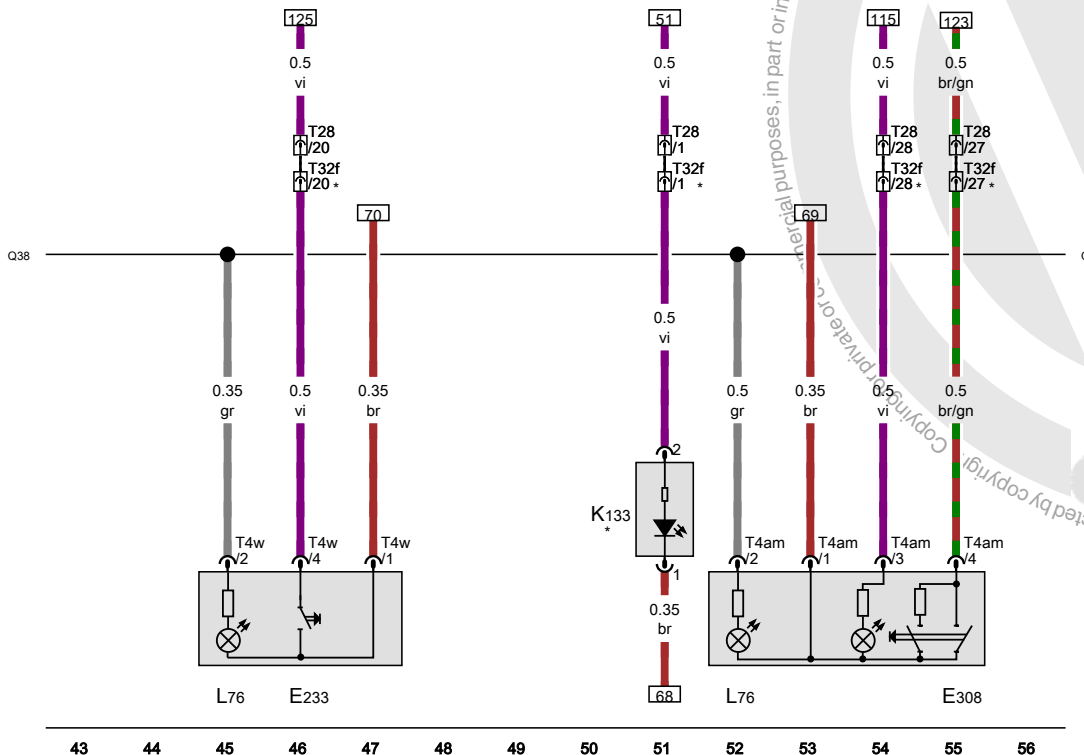
Rear lid remote release button, Driver interior locking button, Driver door control module, Vehicle electrical system control module, Push button illumination bulb

- E233 Rear lid remote release button
- E308 Driver interior locking button
- J386 Driver door control module
- J519 Vehicle electrical system control module
- K133 Central locking -SAFE- indicator lamp
- L76 Push button illumination bulb
- T4am 4-pin connector
- T4w 4-pin connector
- T16a 16-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T32f 32-pin connector, Left A-pillar, bottom
- T73a 73-pin connector
- T73b 73-pin connector

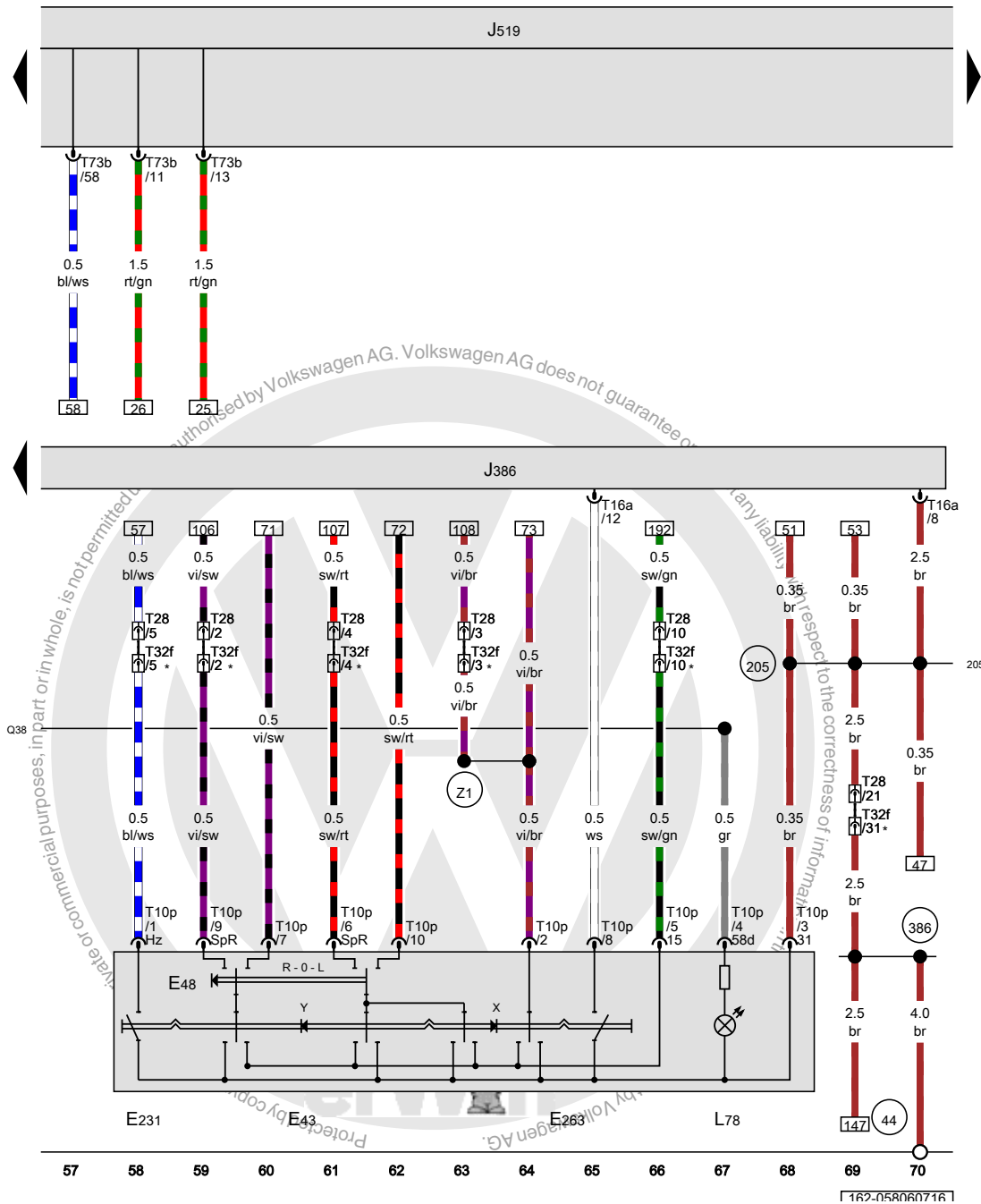
B528 LIN bus connection 1 (in main wiring harness)

Q38 Positive connection 1 (58b) (in power window wiring harness)

* Depending on equipment



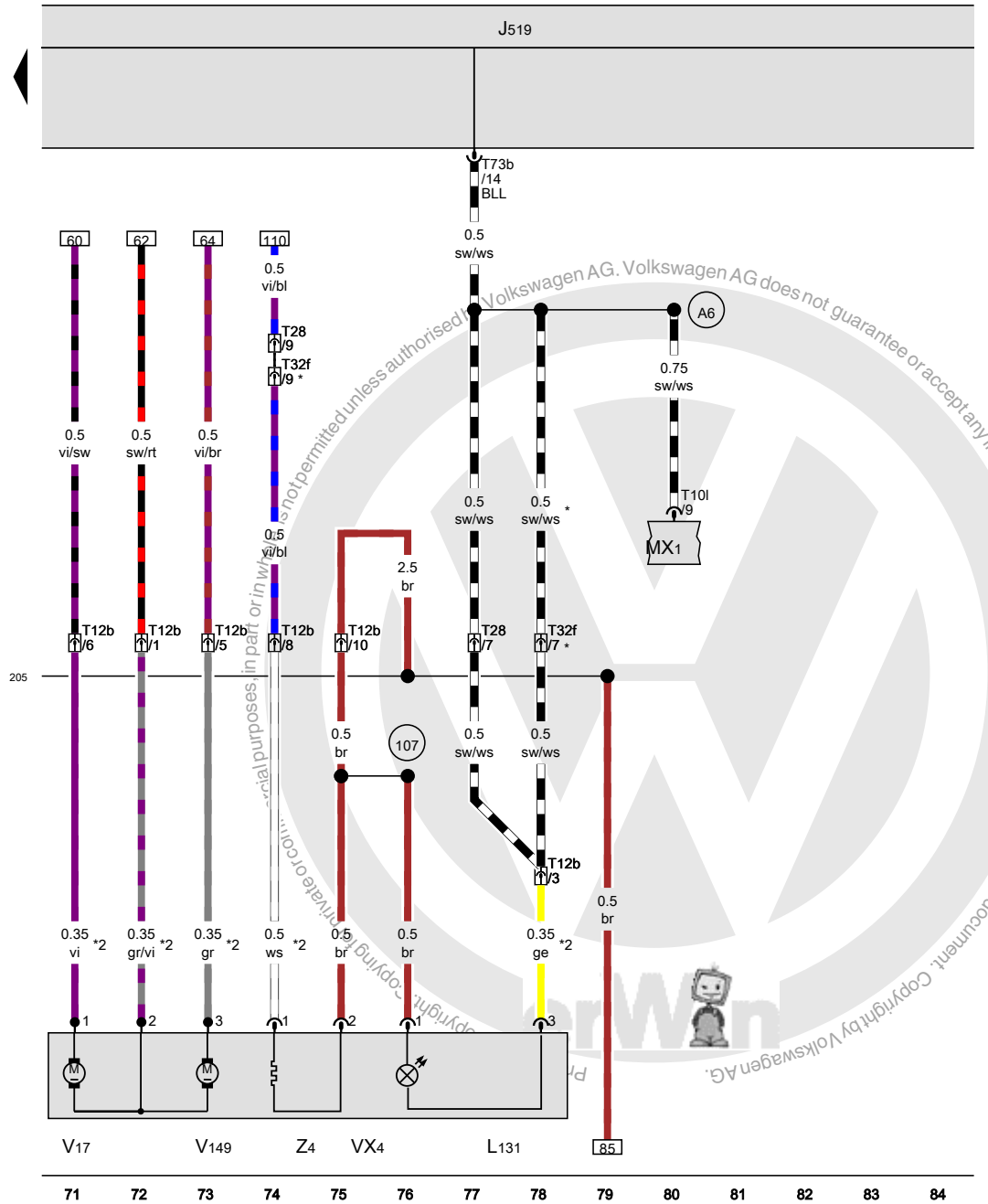
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Mirror folding switch, Driver door control module, Vehicle electrical system control module, Mirror adjustment switch illumination bulb

- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E231 Exterior rearview mirror heating switch
- E263 Mirror folding switch
- J386 Driver door control module
- J519 Vehicle electrical system control module
- L78 Mirror adjustment switch illumination bulb
- T10p 10-pin connector
- T16a 16-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T32f 32-pin connector, Left A-pillar, bottom
- T73b 73-pin connector

- 44 Ground connection on A-pillar, lower left
- 205 Ground connection (in driver door wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- Z1 Connection 1 (in power heated mirror wiring harness)
- * Depending on equipment

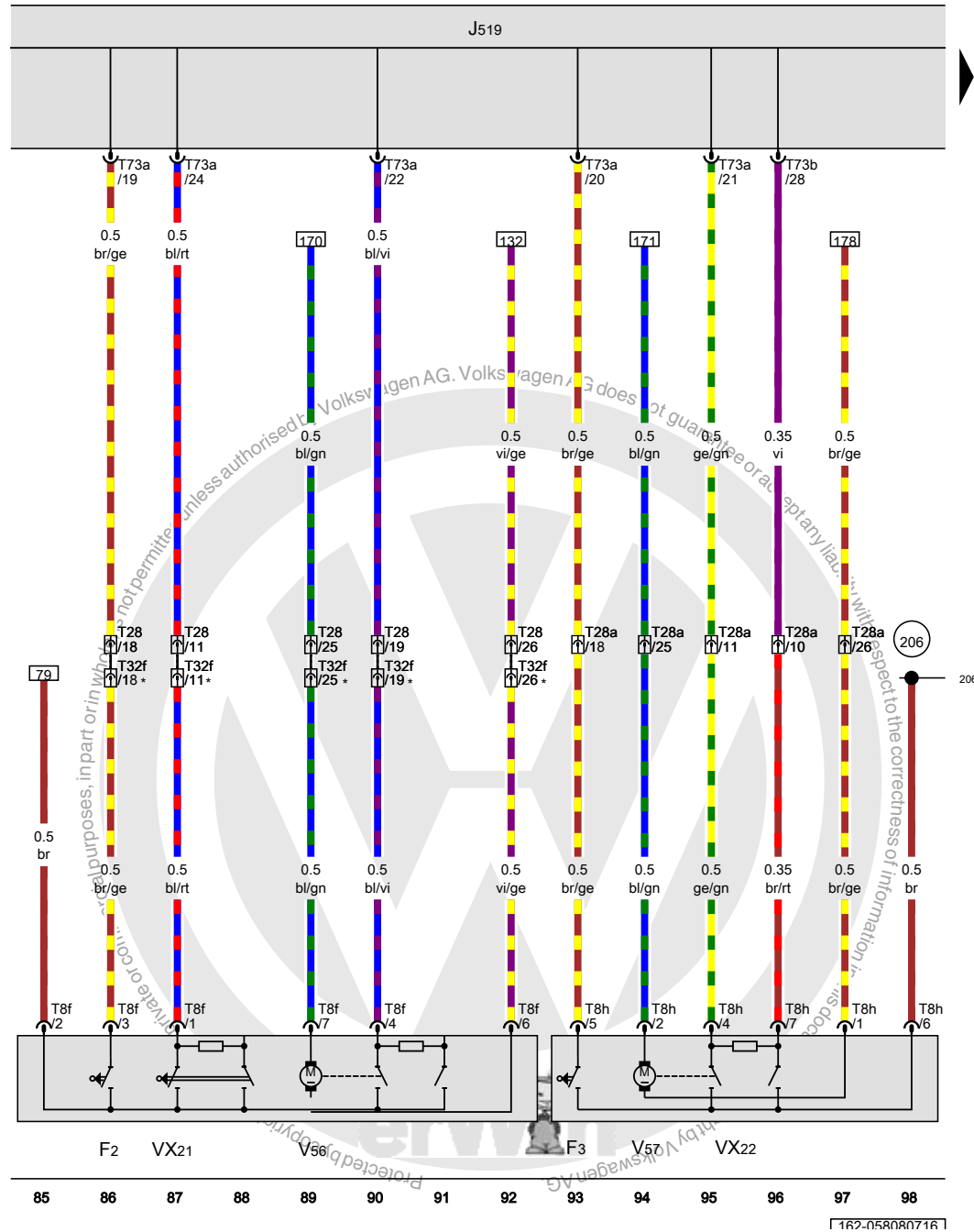


Vehicle electrical system control module, Driver exterior rearview mirror, Driver mirror adjustment motor

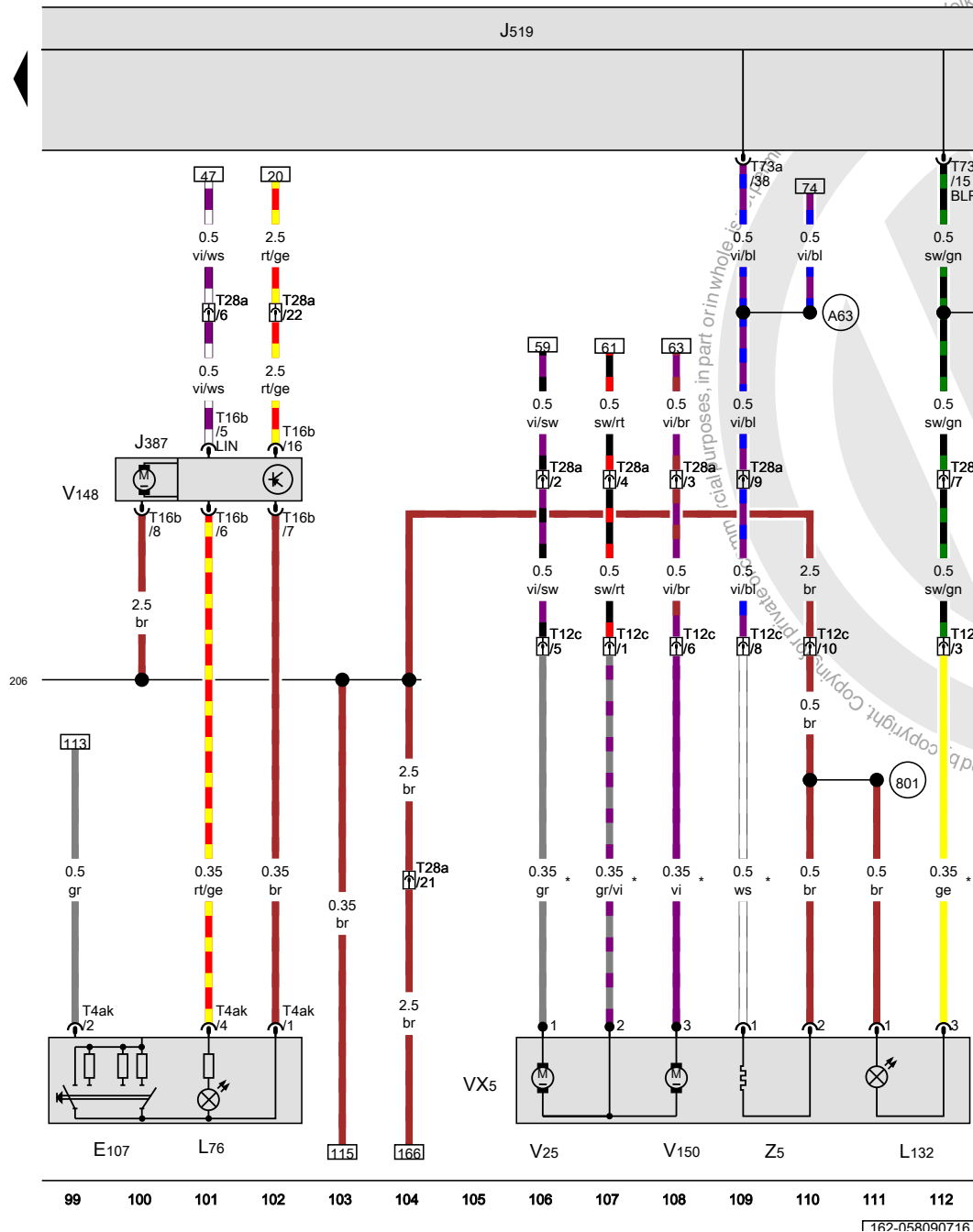
- J519 Vehicle electrical system control module
- L131 Driver exterior rearview mirror turn signal bulb
- MX1 Left front headlamp
- T10i 10-pin connector
- T12b 12-pin connector, in the driver door wiring harness
- T28 28-pin connector, Left A-pillar, bottom
- T32f 32-pin connector, Left A-pillar, bottom
- T73b 73-pin connector
- VX4 Driver exterior rearview mirror
- V17 Driver mirror adjustment motor 2
- V149 Driver mirror adjustment motor
- Z4 Heated driver exterior rearview mirror
- 107 Ground connection (in exterior mirror wiring harness), in the left door, near the exterior rearview mirror
- 205 Ground connection (in driver door wiring harness)
- A6 Left turn signal positive connection (in instrument panel wiring harness)
- * Depending on equipment
- *2 The color of the wires depends on vehicle equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Driver door contact switch, Front passenger door contact switch, Vehicle electrical system control module, Driver door lock unit, Front passenger door lock unit, Driver door central locking system motor, Front passenger door central locking system motor



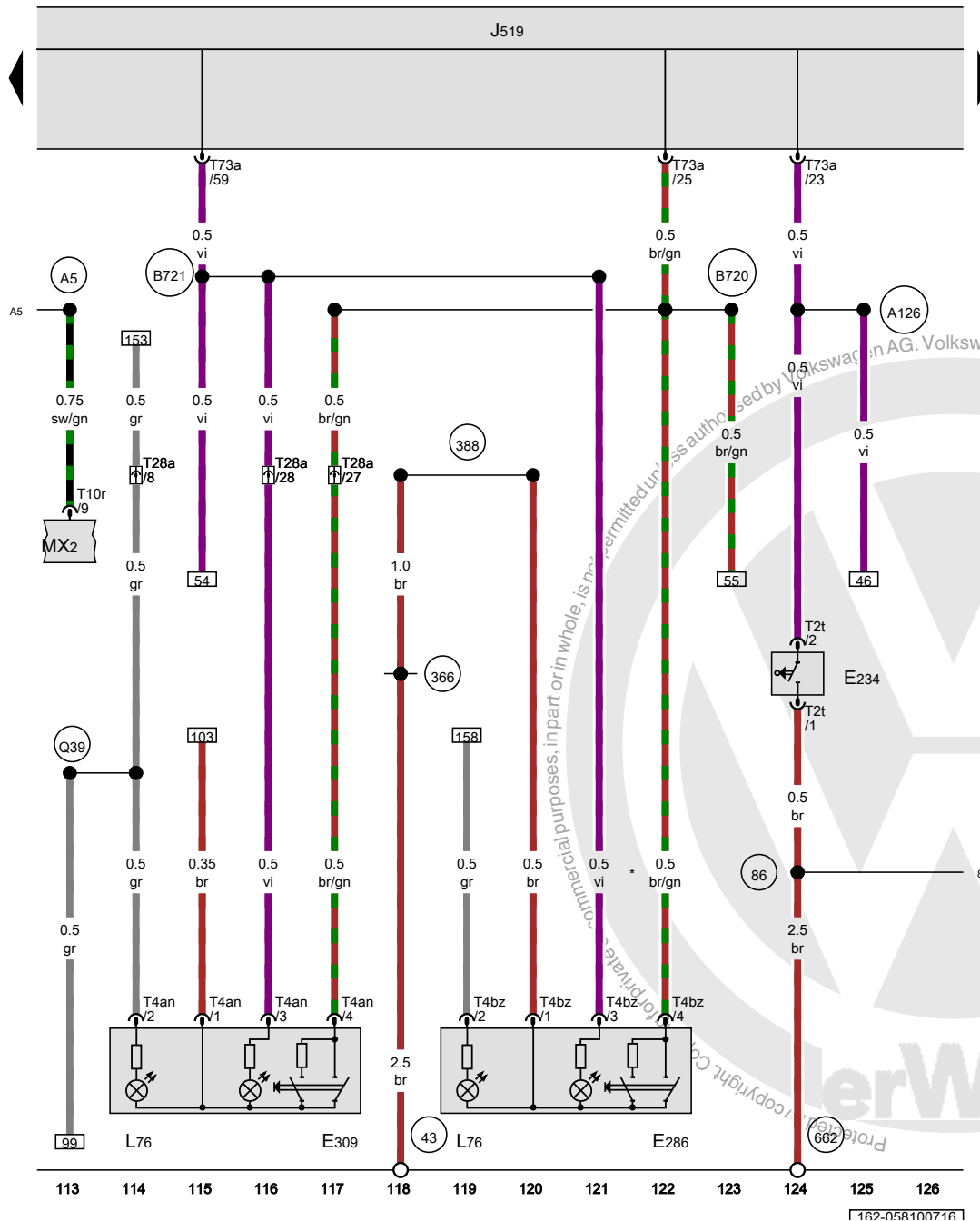
- F2 Driver door contact switch
- F3 Front passenger door contact switch
- J519 Vehicle electrical system control module
- T8f 8-pin connector
- T8h 8-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T28a 28-pin connector, Right A-pillar, bottom
- T32f 32-pin connector, Left A-pillar, bottom
- T73a 73-pin connector
- T73b 73-pin connector
- VX21 Driver door lock unit
- VX22 Front passenger door lock unit
- V56 Driver door central locking system motor
- V57 Front passenger door central locking system motor
- 206 Ground connection (in front passenger door wiring harness)
- * Depending on equipment



Front passenger door window regulator switch, Front passenger door control module, Vehicle electrical system control module, Front passenger exterior rearview mirror turn signal bulb, Front passenger exterior rearview mirror, Front passenger window regulator motor

- E107 Front passenger door window regulator switch
- J387 Front passenger door control module
- J519 Vehicle electrical system control module
- L76 Push button illumination bulb
- L132 Front passenger exterior rearview mirror turn signal bulb
- T4ak 4-pin connector
- T12c 12-pin connector, in the front passenger door
- T16b 16-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T73a 73-pin connector
- T73b 73-pin connector
- VX5 Front passenger exterior rearview mirror
- V25 Front passenger side mirror adjustment motor 2
- V148 Front passenger window regulator motor
- V150 Front passenger mirror adjustment motor
- Z5 Heated front passenger exterior rearview mirror
- 206 Ground connection (in front passenger door wiring harness)
- 801 Ground connection 2 (in exterior rearview mirror wiring harness), in the right door, near the exterior rearview mirror
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- A63 Mirror adjustment/heating connection (in instrument panel wiring harness)
- * The color of the wires depends on vehicle equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



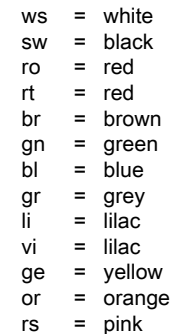
Release button in rear lid handle, Rear center interior locking switch, Front passenger interior locking button, Vehicle electrical system control module

- E234 Release button in rear lid handle
- E286 Rear center interior locking switch
- E309 Front passenger interior locking button
- J519 Vehicle electrical system control module
- L76 Push button illumination bulb
- MX2 Right front headlamp
- T2t 2-pin connector
- T4an 4-pin connector
- T4bz 4-pin connector
- T10r 10-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T73a 73-pin connector

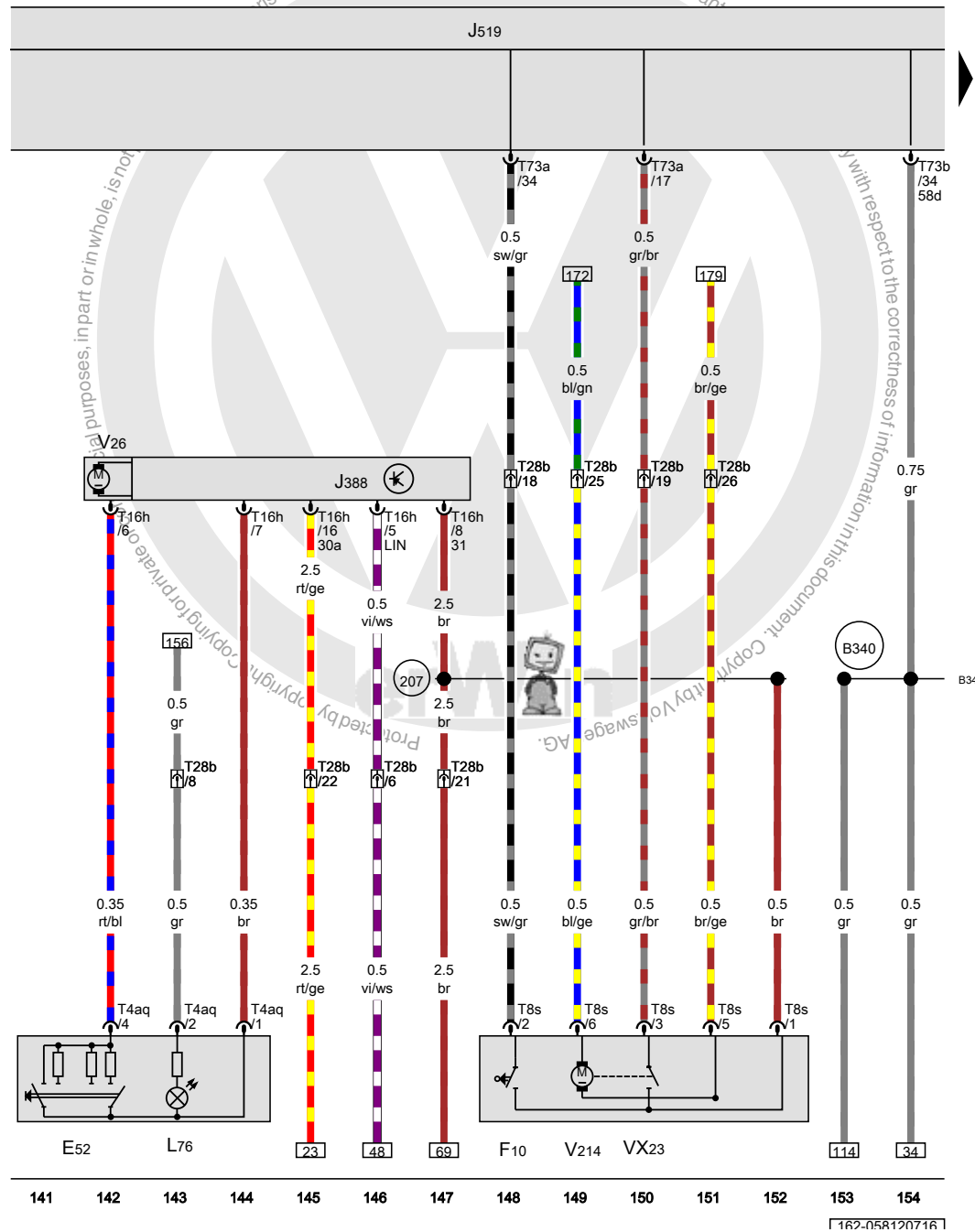
- 43 Ground connection on A-pillar, lower right
- 86 Ground connection 1 (in rear wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 662 Ground connection in left rear side panel
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- A126 Rear lid contact switch connection (in instrument panel wiring harness)
- B720 Central locking connection 1 (in main wiring harness)
- B721 Central locking connection 2 (in main wiring harness)
- Q39 Positive connection 2 (58b) (in power window wiring harness)

The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- ll = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



- 44 Ground connection on A-pillar, lower left
- 86 Ground connection 1 (in rear wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- A32 Positive connection (30) (in instrument panel wiring harness)
- B128 Luggage compartment lamp connection (in interior wiring harness)
- B216 Central locking connection 3 (in interior wiring harness)
- B250 Positive connection (in roof wiring harness)
- * Omitted as a running change
- *2 The color of the wires depends on vehicle equipment
- *3 Running change



Left rear power window switch in left rear door, Left rear door contact switch, Left rear door control module, Vehicle electrical system control module, Left rear door lock unit, Left rear window regulator motor, Left rear central locking - lock- motor

- E52 Left rear power window switch in left rear door
- F10 Left rear door contact switch
- J388 Left rear door control module
- J519 Vehicle electrical system control module
- L76 Push button illumination bulb
- T4aq 4-pin connector
- T8s 8-pin connector
- T16h 16-pin connector
- T28b 28-pin connector, on the left B-pillar
- T73a 73-pin connector
- T73b 73-pin connector
- VX23 Left rear door lock unit
- V26 Left rear window regulator motor
- V214 Left rear central locking -lock- motor

207 Ground connection (in left rear door wiring harness)

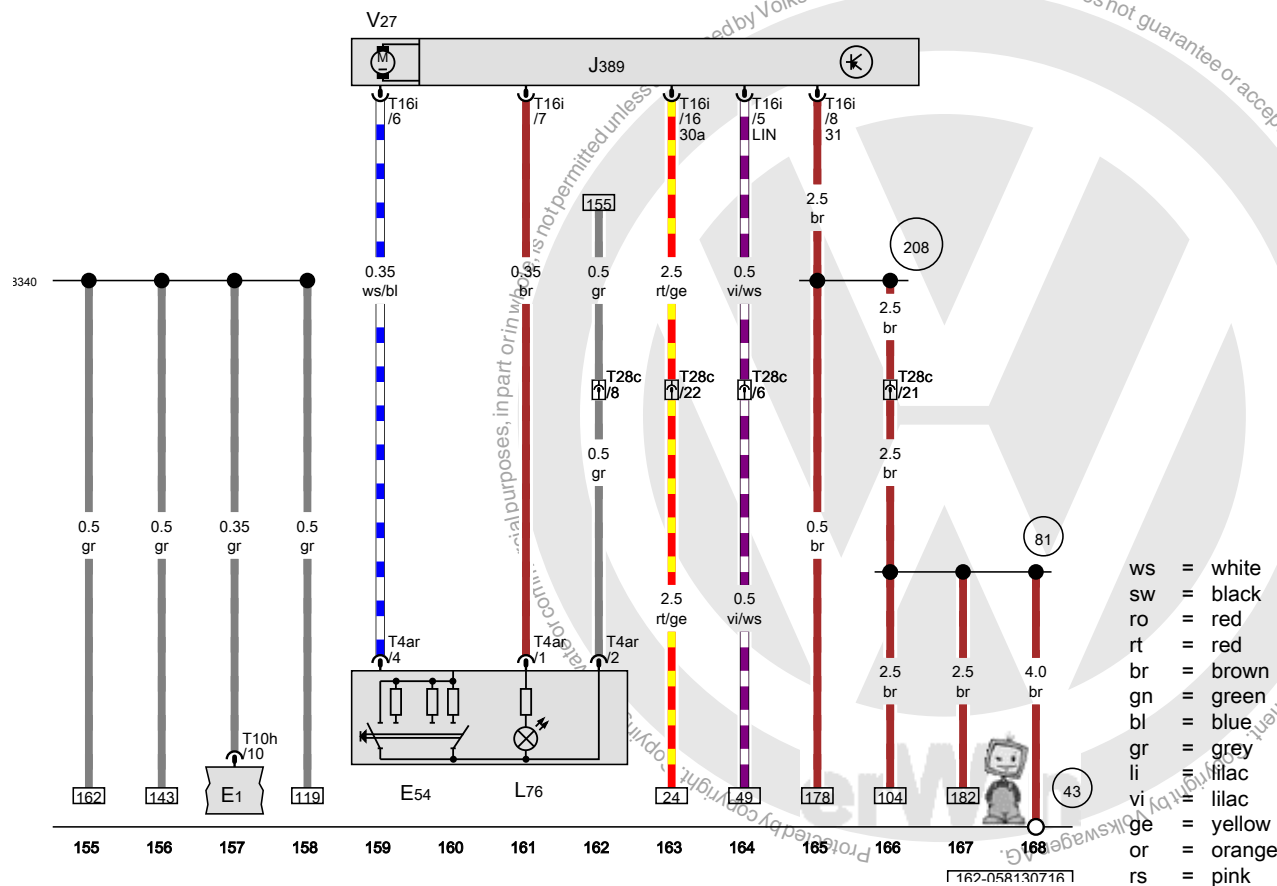
B340 Connection 58d (in main wiring harness) 1

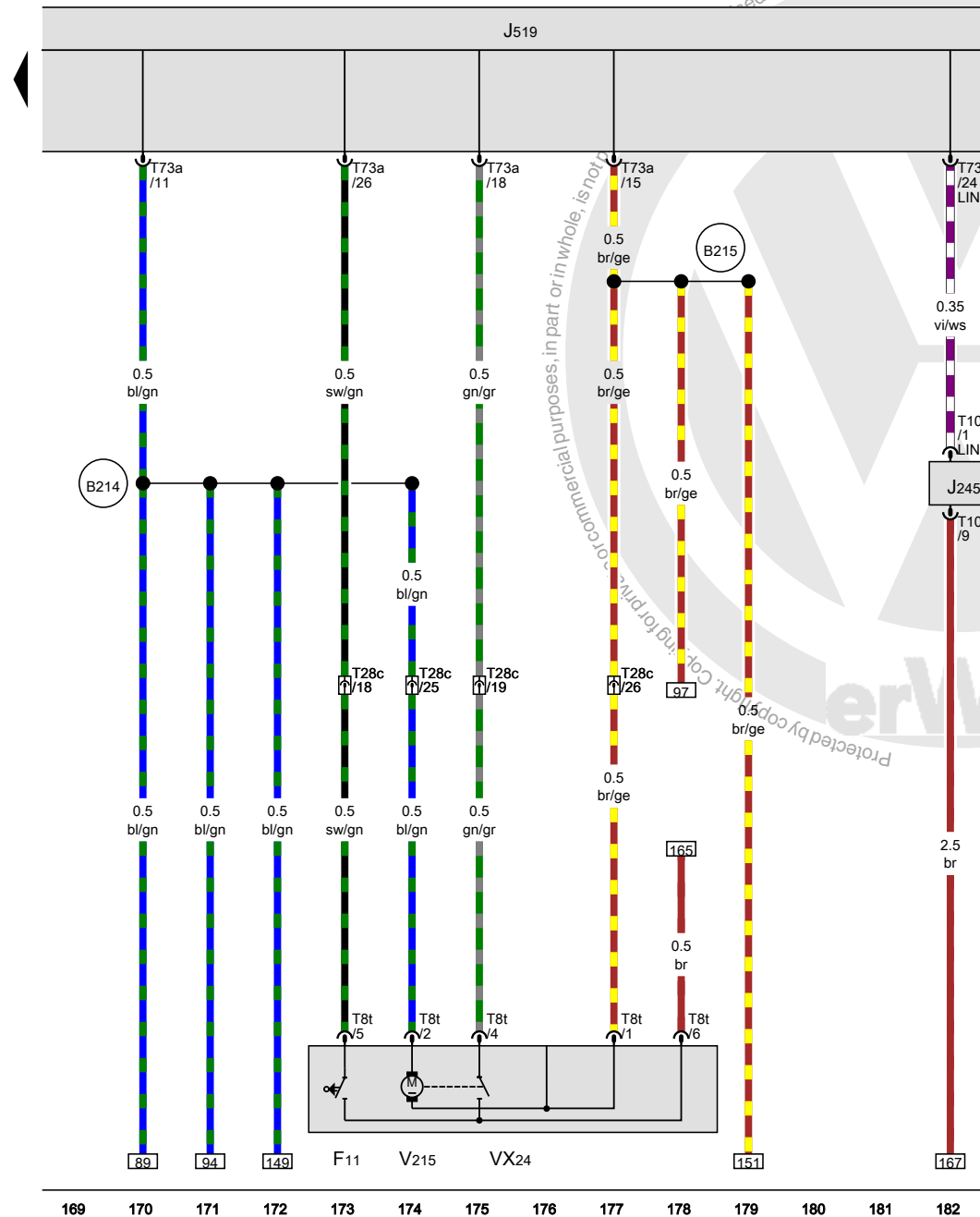
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Right rear window switch in right rear door, Right rear door control module, Vehicle electrical system control module, Right rear window regulator motor

- E1 Light switch
- E54 Right rear window switch in right rear door
- J389 Right rear door control module
- J519 Vehicle electrical system control module
- L76 Push button illumination bulb
- T4ar 4-pin connector
- T10h 10-pin connector
- T16i 16-pin connector
- T28c 28-pin connector, on the right B-pillar
- V27 Right rear window regulator motor

- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 208 Ground connection (in right rear door wiring harness)
- B340 Connection 58d (in main wiring harness) 1





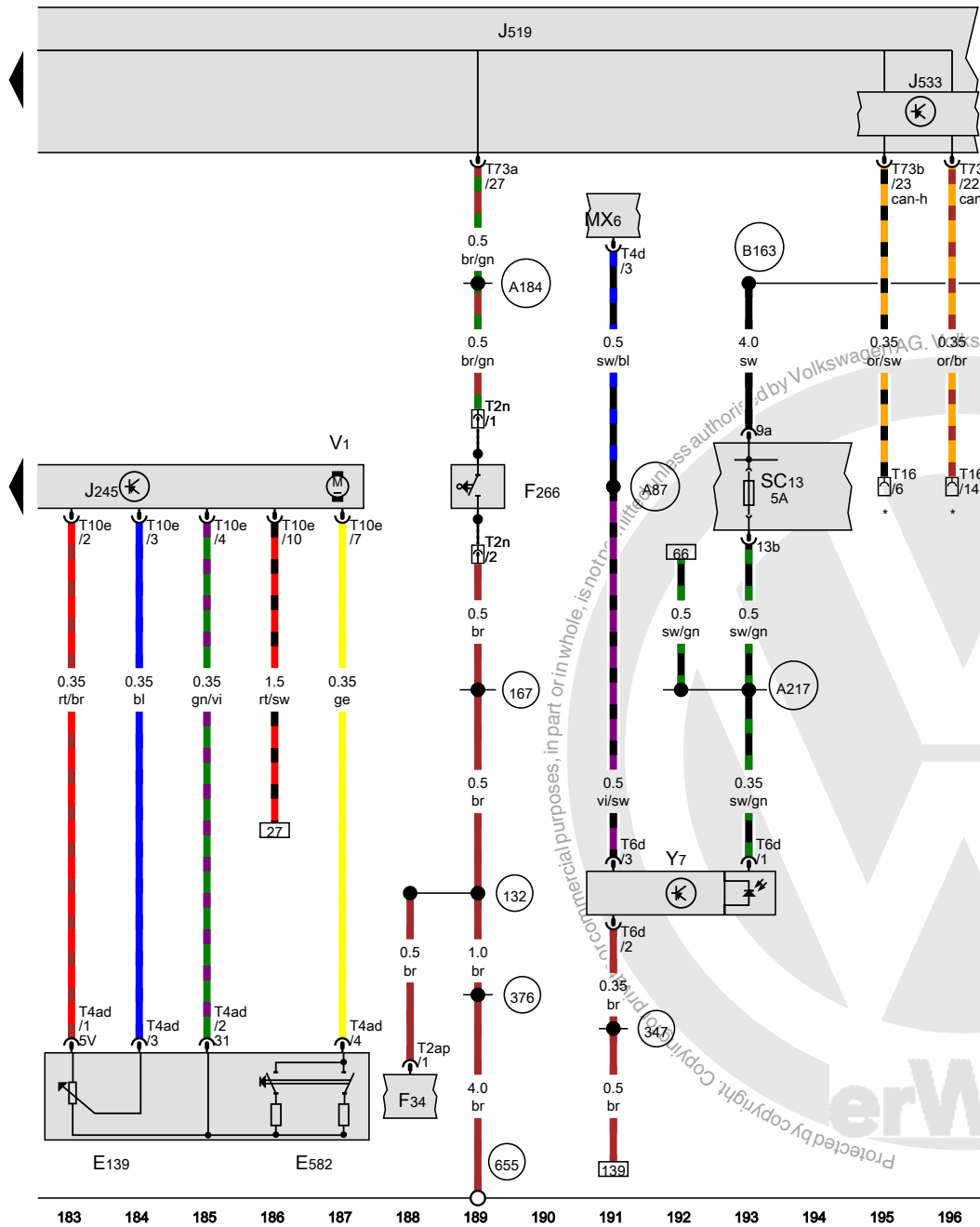
Right rear door contact switch, Power sunroof control module, Vehicle electrical system control module, Right rear door lock unit, Right rear central locking -lock- motor

- F11 Right rear door contact switch
- J245 Power sunroof control module
- J519 Vehicle electrical system control module
- T8t 8-pin connector
- T10e 10-pin connector
- T28c 28-pin connector, on the right B-pillar
- T73a 73-pin connector
- T73b 73-pin connector
- VX24 Right rear door lock unit
- V215 Right rear central locking -lock- motor

B214 Central locking connection 1 (in interior wiring harness)

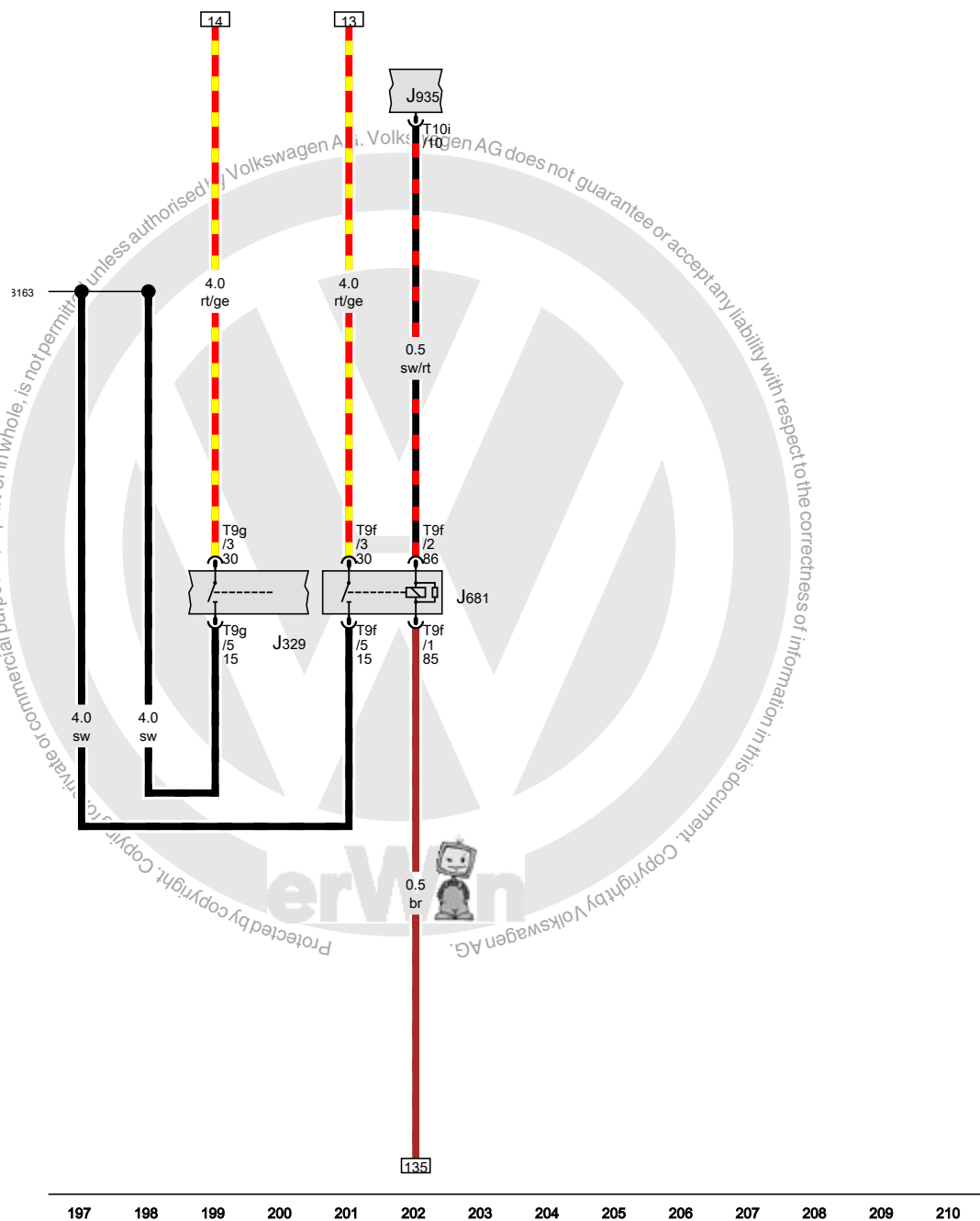
B215 Central locking connection 2 (in interior wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Sunroof adjustment regulator, Sunroof tilt button 1, Engine hood contact switch, Power sunroof control module, Vehicle electrical system control module, Data bus on board diagnostic interface, Sunroof motor, Automatic dimming interior rearview mirror

- E139 Sunroof adjustment regulator
- E582 Sunroof tilt button 1
- F34 Brake fluid level warning switch
- F266 Engine hood contact switch
- J245 Power sunroof control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- MX6 Right tail lamp 2
- SC13 Fuse 13 (on fuse panel C)
- T2ap 2-pin connector
- T2n 2-pin connector
- T4ad 4-pin connector
- T4d 4-pin connector
- T6d 6-pin connector
- T10e 10-pin connector
- T16 16-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- V1 Sunroof motor
- Y7 Automatic dimming interior rearview mirror
- 132 Ground connection 3 (in engine compartment wiring harness)
- 167 Ground connection 4 (in engine compartment wiring harness)
- 347 Ground connection (in roof wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- A87 Back-up lamp connection (in instrument panel wiring harness)
- A184 Hood contact switch connection (in instrument panel wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- * Diagnostic connector



Terminal 15 power supply relay, Terminal 15 power supply relay 2

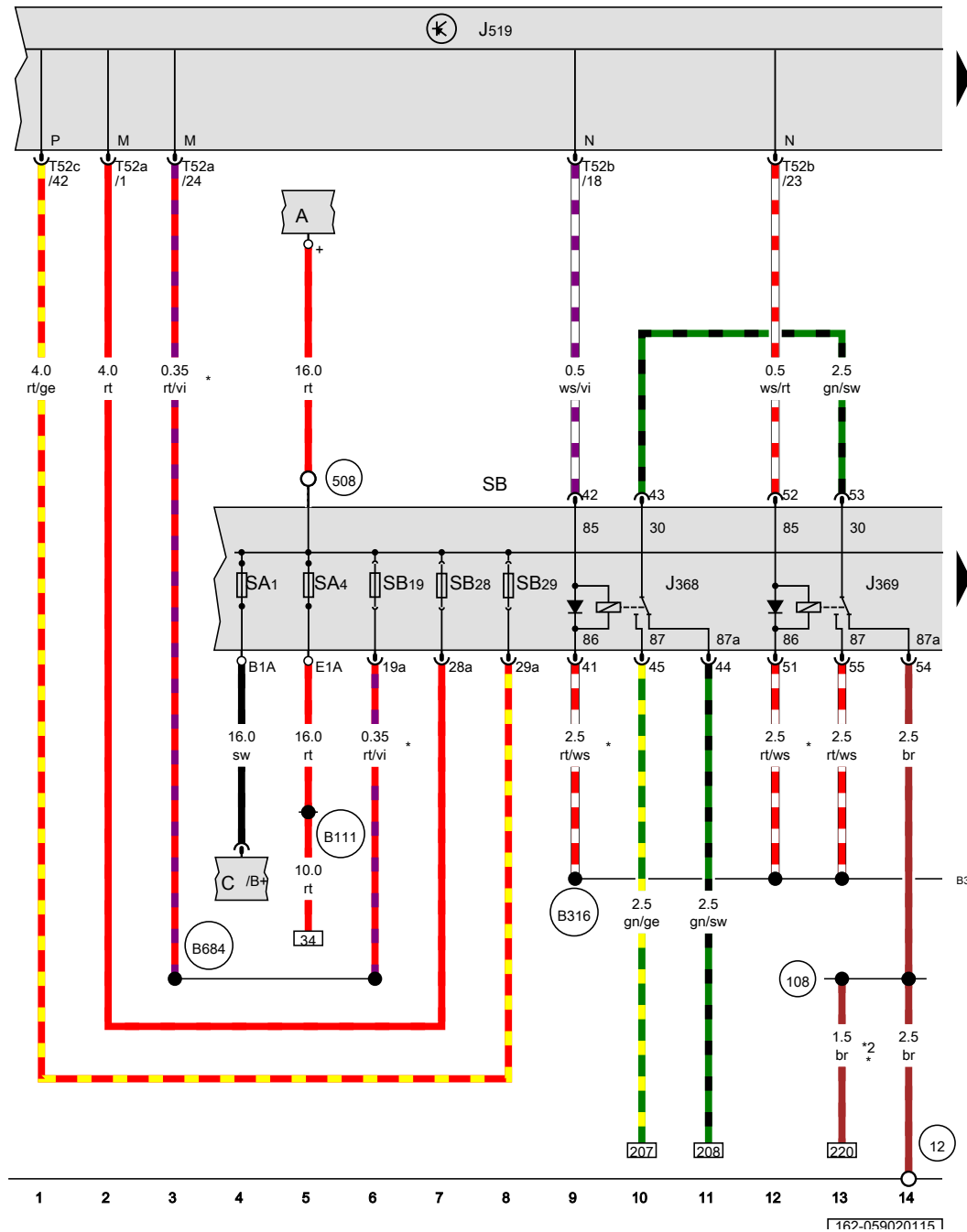
- J329 Terminal 15 power supply relay
- J681 Terminal 15 power supply relay 2
- J935 Converter box
- T9f 9-pin connector
- T9g 9-pin connector
- T10i 10-pin connector
- B163** Positive connection 1 (15) (in interior wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Standard equipment , (AW1)

From June 2011



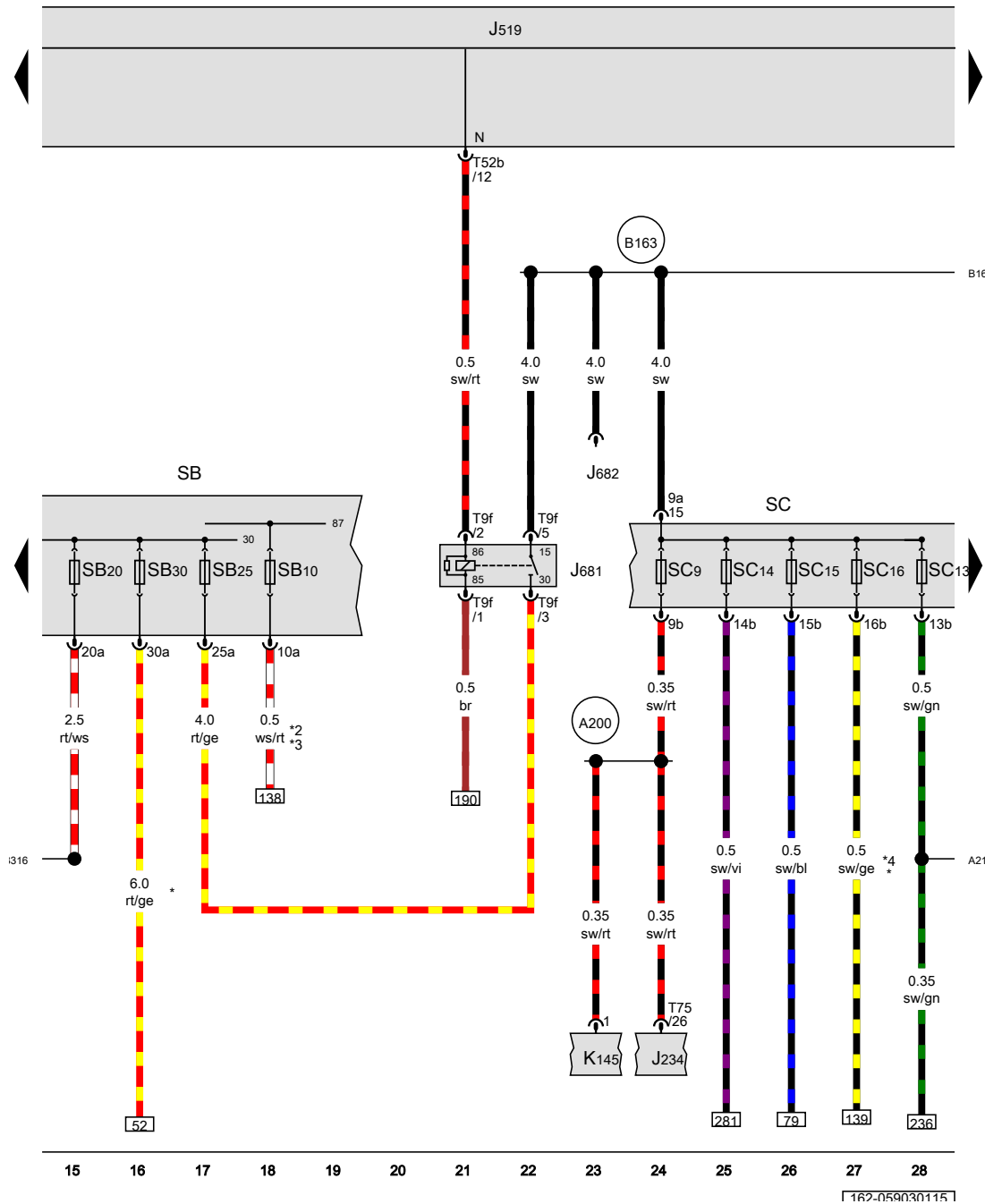


Wiper motor relay 1, Wiper motor relay 2, Vehicle electrical system control module, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A), Fuse panel B

- A Battery
- C Generator
- J368 Wiper motor relay 1
- J369 Wiper motor relay 2
- J519 Vehicle electrical system control module
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SB19 Fuse 19 (on fuse panel B)
- SB28 Fuse 28 (on fuse panel B)
- SB29 Fuse 29 (on fuse panel B)
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 12 Ground connection in engine compartment, left
- 108 Ground connection 2 (in left front wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B316 Positive connection 2 (30a) (in main wiring harness)
- B684 Positive connection 24 (30a) (in main wiring harness)
- * Diameter depends on equipment
- *2 Only for vehicles with dual tone horn

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
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- or = orange
- rs = pink

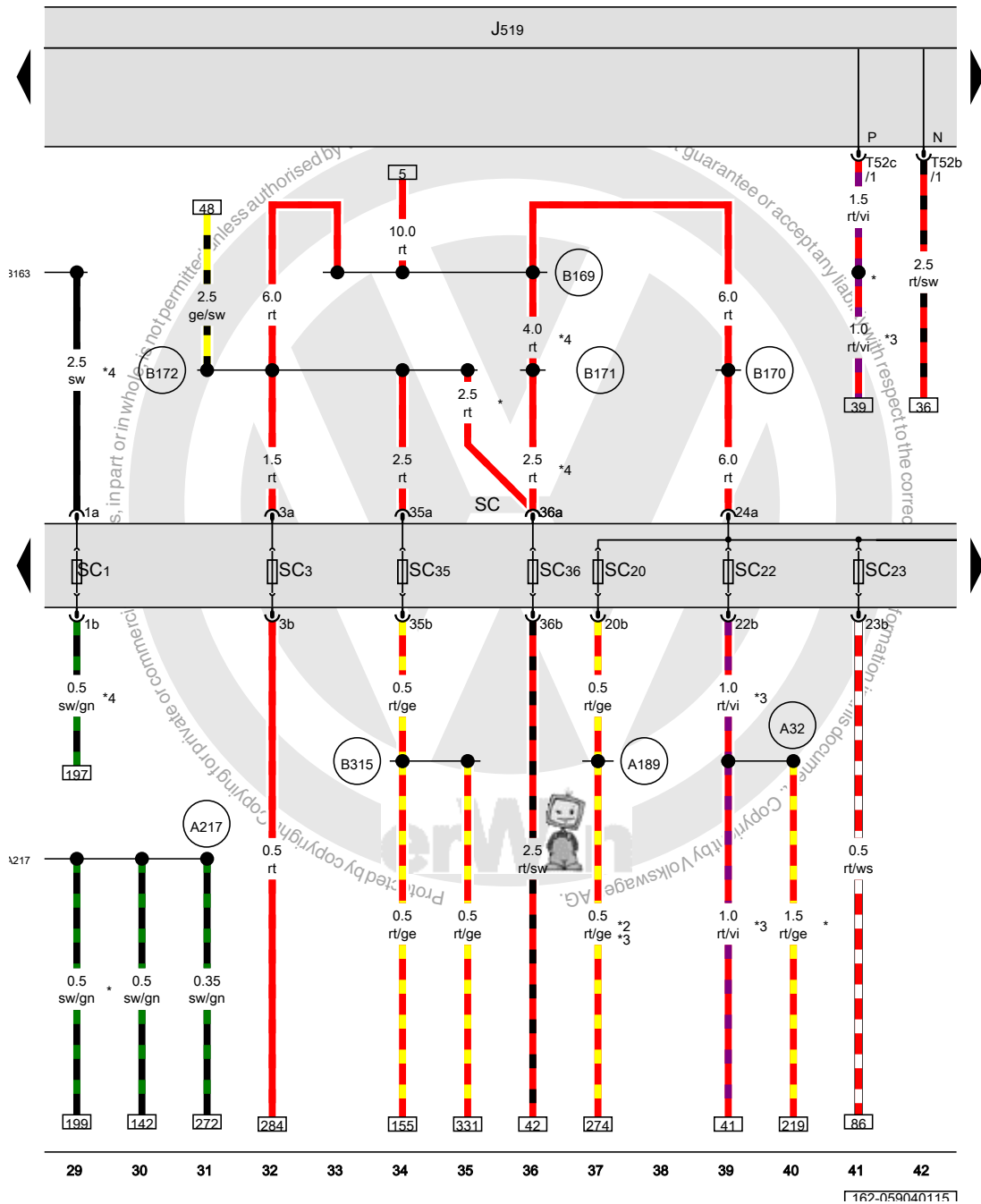


Vehicle electrical system control module, Terminal 15 power supply relay 2, Fuse panel B, Fuse panel C

- J234 Airbag control module
- J519 Vehicle electrical system control module
- J681 Terminal 15 power supply relay 2
- J682 Terminal 50 power supply relay
- K145 Front passenger airbag -disabled- indicator lamp
- SB Fuse panel B
- SB10 Fuse 10 (on fuse panel B)
- SB20 Fuse 20 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)
- SB30 Fuse 30 (on fuse panel B)
- SC Fuse panel C
- SC9 Fuse 9 (on fuse panel C)
- SC13 Fuse 13 (on fuse panel C)
- SC14 Fuse 14 (on fuse panel C)
- SC15 Fuse 15 (on fuse panel C)
- SC16 Fuse 16 (on fuse panel C)
- T9f 9-pin connector
- T52b 52-pin connector
- T75 75-pin connector

- A200 Positive connection 5 (15a) (in instrument panel wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B316 Positive connection 2 (30a) (in main wiring harness)
- * Diameter depends on equipment
- *2 Only for vehicles with DSG transmission
- *3 Through May 2013
- *4 Depending on equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Vehicle electrical system control module, Fuse panel C

J519 Vehicle electrical system control module

SC Fuse panel C

SC1 Fuse 1 (on fuse panel C)

SC3 Fuse 3 (on fuse panel C)

SC20 Fuse 20 (on fuse panel C)

SC22 Fuse 22 (on fuse panel C)

SC23 Fuse 23 (on fuse panel C)

SC35 Fuse 35 (on fuse panel C)

SC36 Fuse 36 (on fuse panel C)

T52b 52-pin connector

T52c 52-pin connector

A32 Positive connection (30) (in instrument panel wiring harness)

A189 Positive connection 5 (30a) (in instrument panel wiring harness)

A217 Positive connection 8 (15a) (in instrument panel wiring harness)

B163 Positive connection 1 (15) (in interior wiring harness)

B169 Positive connection 1 (30) (in interior wiring harness)

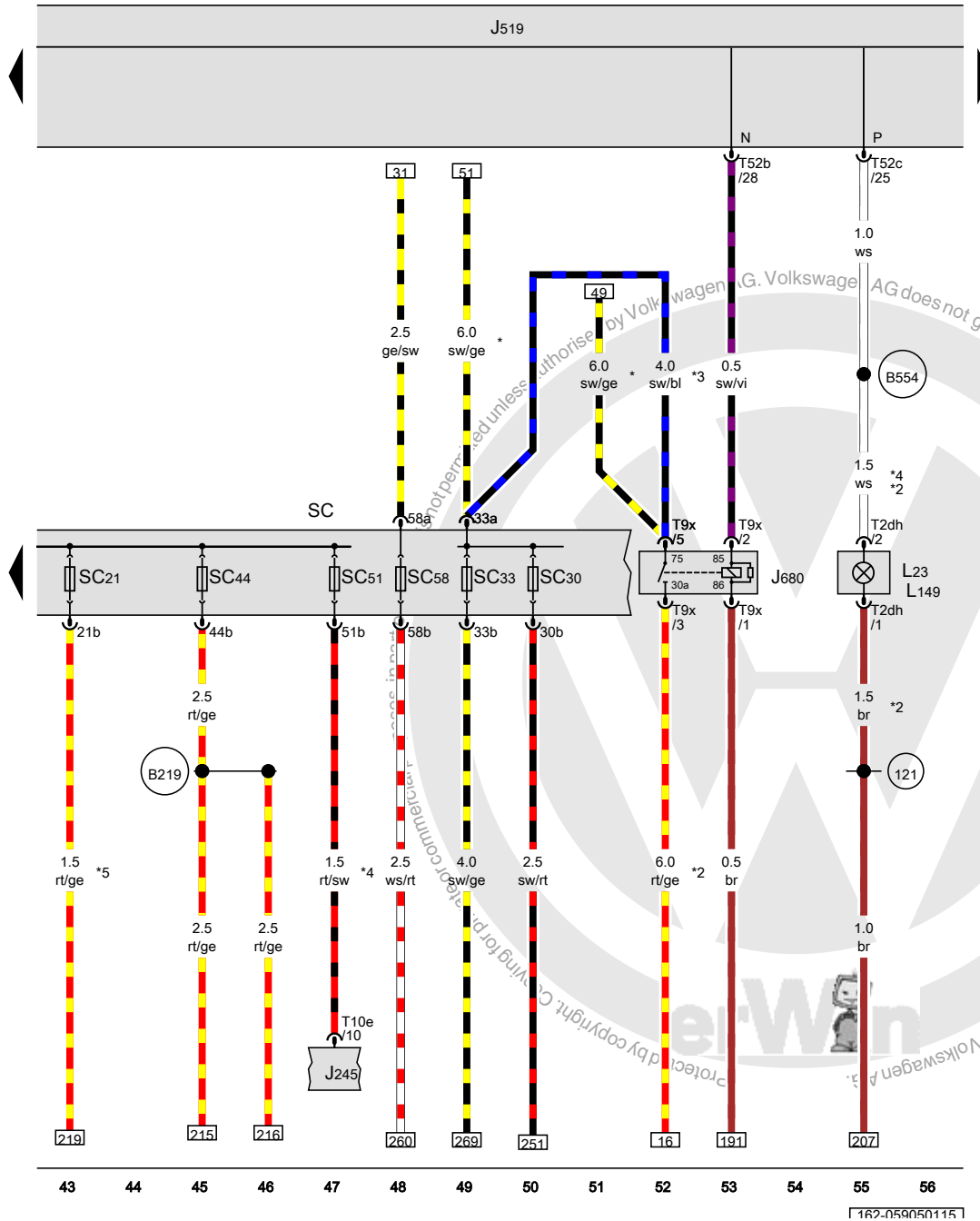
B170 Positive connection 2 (30) (in interior wiring harness)

B171 Positive connection 3 (30) (in interior wiring harness)

B172 Positive connection 4 (30) (in interior wiring harness)

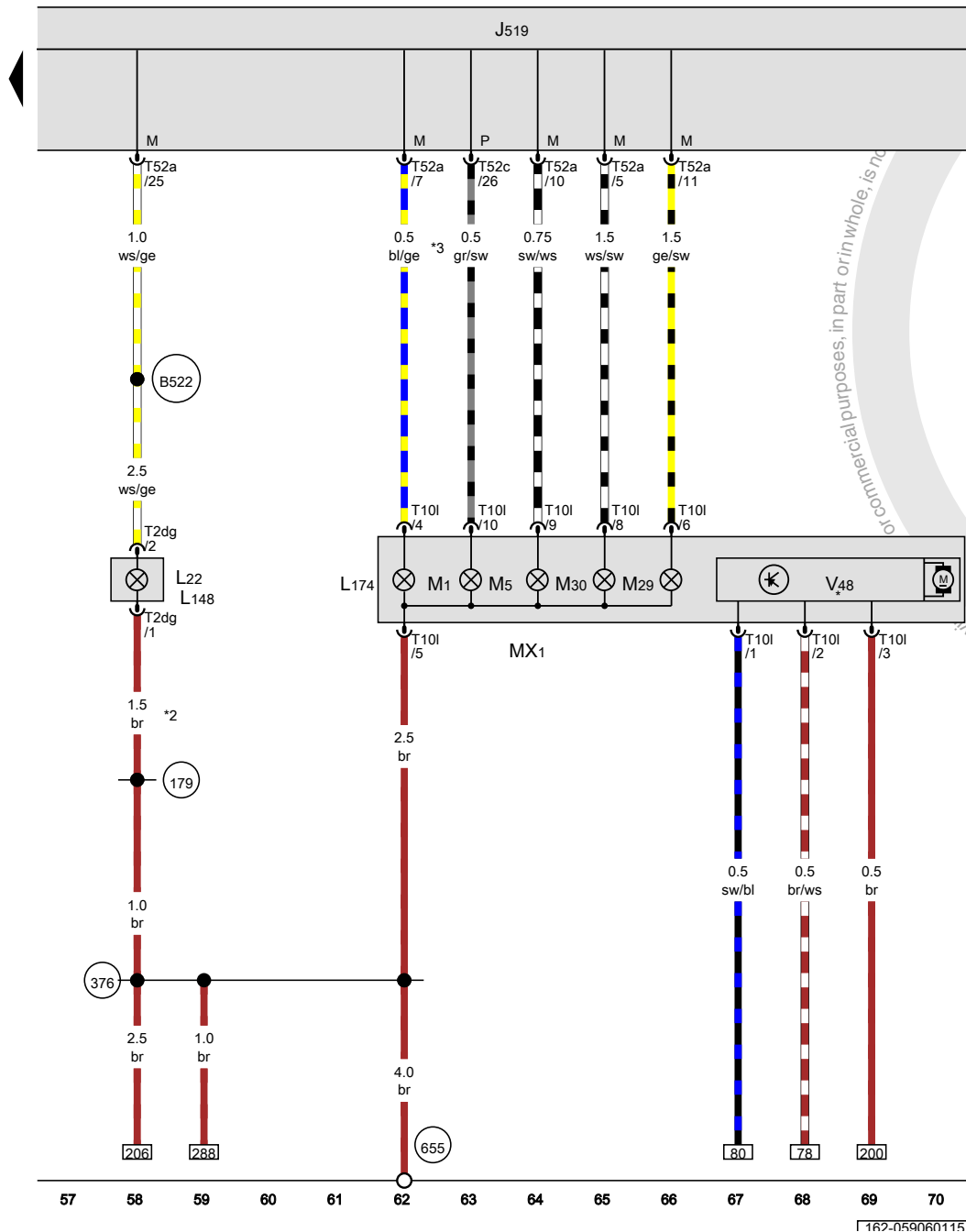
B315 Positive connection 1 (30a) (in main wiring harness)

Vehicle electrical system control module, Terminal 75 power supply relay 1, Right front fog lamp bulb, Right cornering lamp bulb, Fuse panel C



- J245 Power sunroof control module
- J519 Vehicle electrical system control module
- J680 Terminal 75 power supply relay 1
- L23 Right front fog lamp bulb
- L149 Right cornering lamp bulb
- SC Fuse panel C
- SC21 Fuse 21 (on fuse panel C)
- SC30 Fuse 30 (on fuse panel C)
- SC33 Fuse 33 (on fuse panel C)
- SC44 Fuse 44 (on fuse panel C)
- SC51 Fuse 51 (on fuse panel C)
- SC58 Fuse 58 (on fuse panel C)
- T2dh 2-pin connector
- T9x 9-pin connector
- T10e 10-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 121 Ground connection 2 (in right front wiring harness)
- B219 Positive connection 4 (30a) (in interior wiring harness)
- B554 Fog lamp connection (in main wiring harness)
- * from July 2012
- *2 Diameter depends on equipment
- *3 Through June 2012
- *4 The color of the wires depends on vehicle equipment
- *5 From June 2013



Vehicle electrical system control module, Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp bulb, Left position lamp bulb, Left front headlamp, Left front turn signal bulb, Left headlamp beam adjustment motor

- J519 Vehicle electrical system control module
- L22 Left front fog lamp bulb
- L148 Left cornering lamp bulb
- L174 Left daytime running lamp bulb
- M1 Left position lamp bulb
- MX1 Left front headlamp
- M5 Left front turn signal bulb
- M29 Left low beam headlamp bulb
- M30 Left high beam headlamp bulb
- T2dg 2-pin connector
- T10I 10-pin connector
- T52a 52-pin connector
- T52c 52-pin connector
- V48 Left headlamp beam adjustment motor

- 179 Ground connection (in left headlamp wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- B522 Fog lamp connection (in main wiring harness)

- * Depending on equipment
- *2 Diameter depends on equipment
- *3 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Instrument panel and switch illumination dimmer switch, Headlamp range control adjuster, Vehicle electrical system control module, Right front headlamp, Right position lamp bulb, Right front turn signal bulb, Right headlamp beam adjustment motor

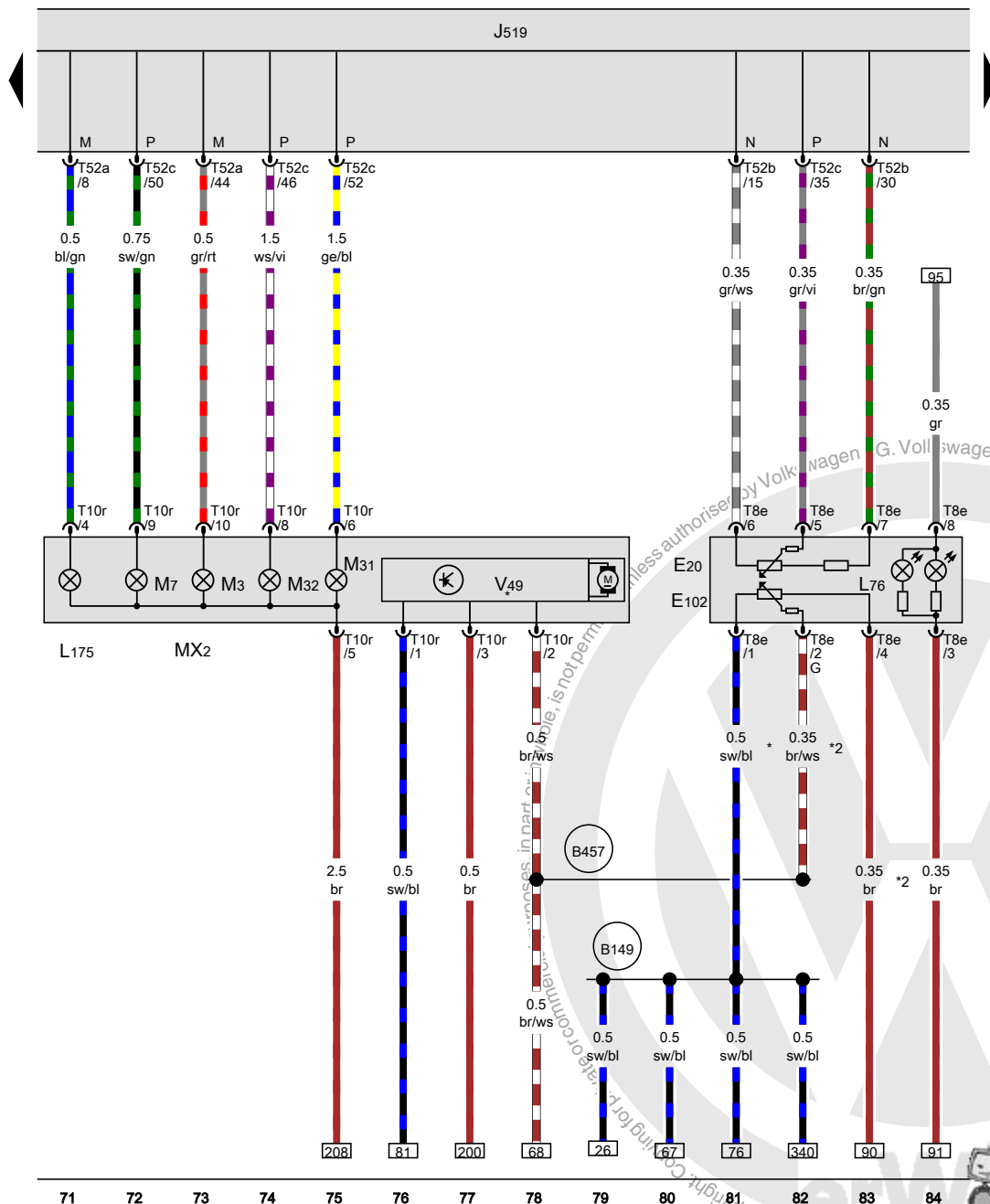
- E20 Instrument panel and switch illumination dimmer switch
- E102 Headlamp range control adjuster
- J519 Vehicle electrical system control module
- L76 Push button illumination bulb
- L175 Right daytime running lamp bulb
- MX2 Right front headlamp
- M3 Right position lamp bulb
- M7 Right front turn signal bulb
- M31 Right low beam headlamp bulb
- M32 Right high beam headlamp bulb
- T8e 8-pin connector
- T10r 10-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V49 Right headlamp beam adjustment motor

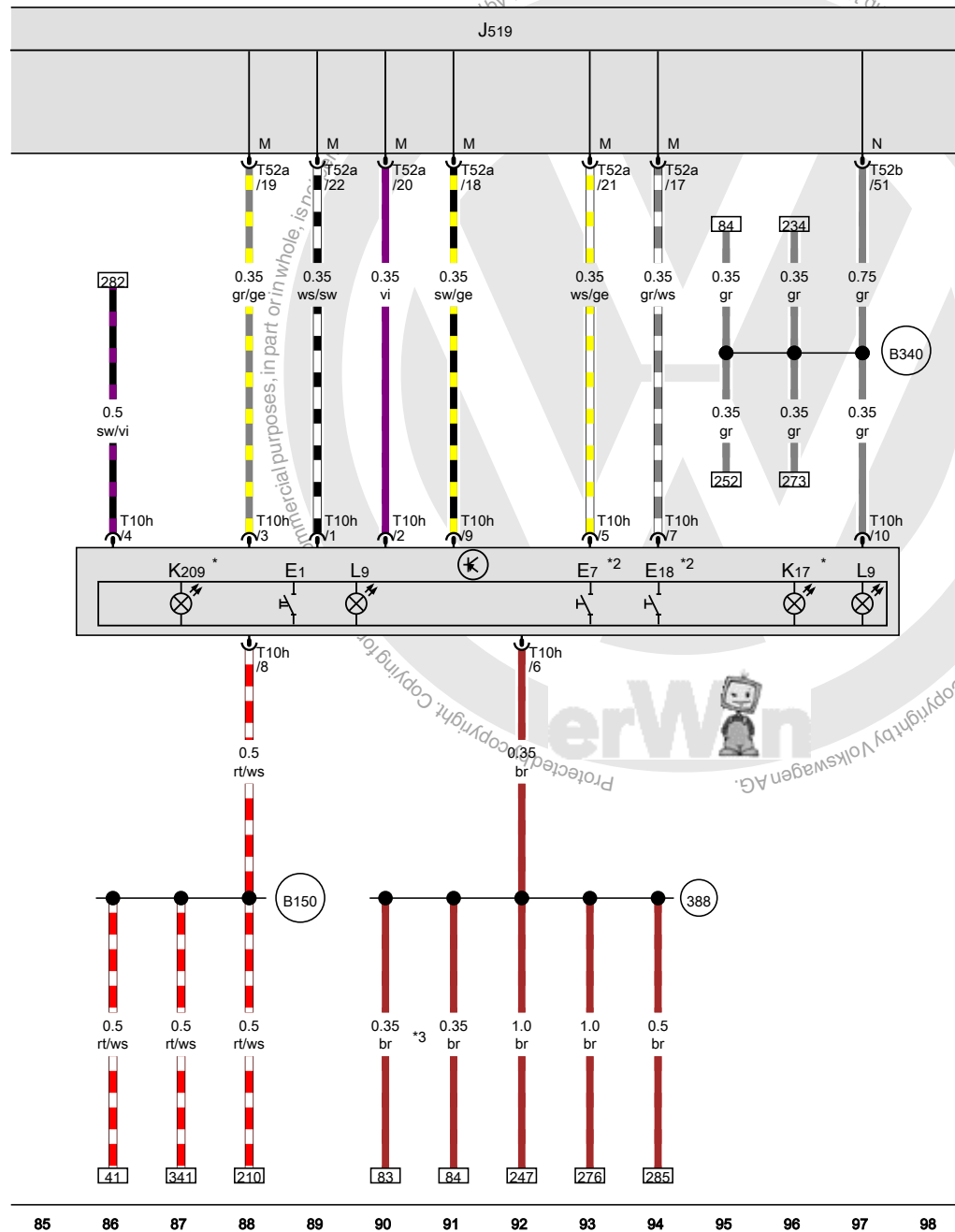
(B149) Positive connection 2 (15a) (in interior wiring harness)

(B457) Position sensor connection 1 (in main wiring harness)

- * Depending on equipment
- *2 Diameter depends on equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink



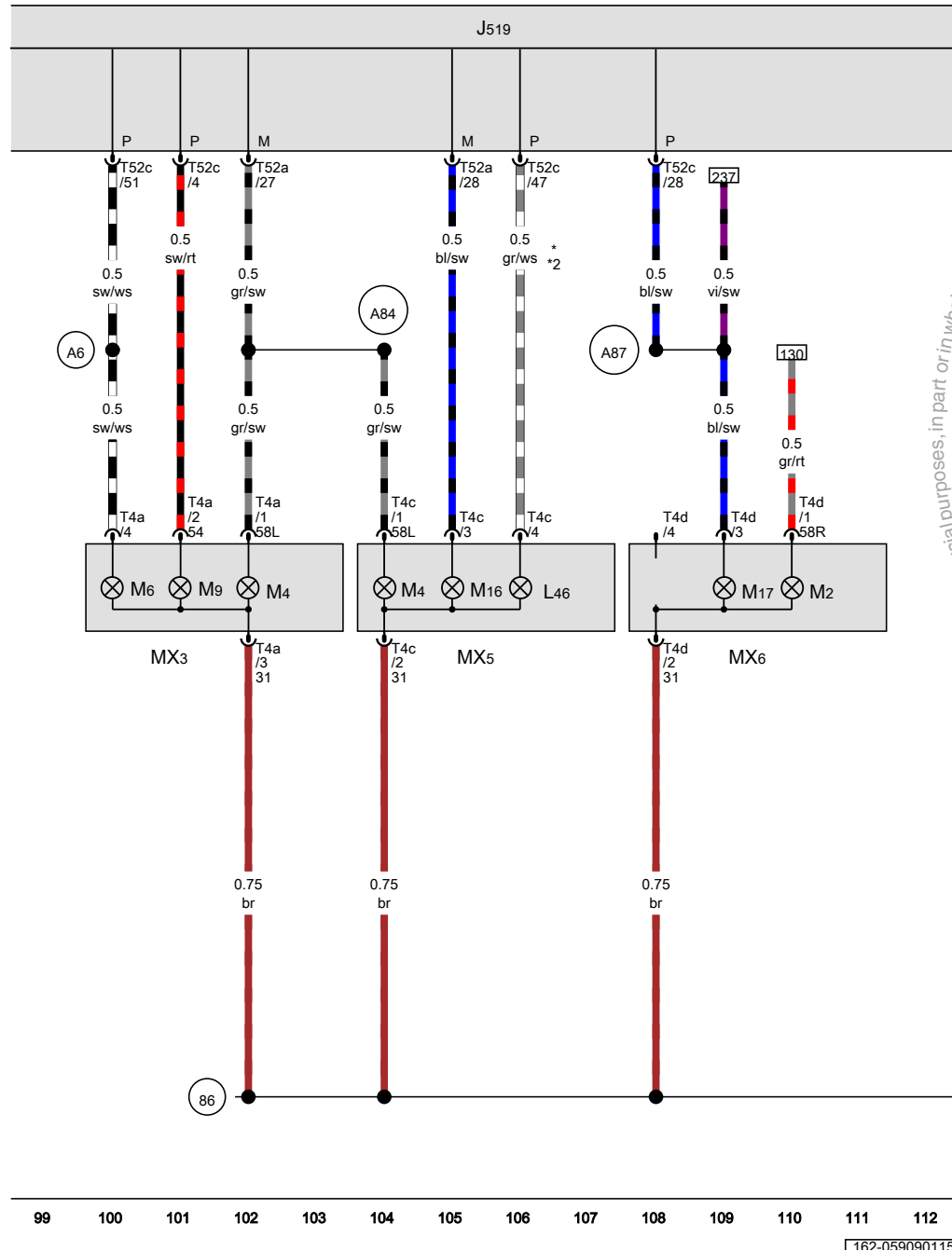


Light switch, Fog lamp switch, Rear fog lamp switch, Vehicle electrical system control module, Fog lamp indicator lamp, Automatic light control indicator lamp

- E1 Light switch
- E7 Fog lamp switch
- E18 Rear fog lamp switch
- J519 Vehicle electrical system control module
- K17 Fog lamp indicator lamp
- K209 Automatic light control indicator lamp
- L9 Headlamp switch illumination bulb
- T10h 10-pin connector
- T52a 52-pin connector
- T52b 52-pin connector

- 388 Ground connection 23 (in main wiring harness)
- B150 Positive connection 2 (30a) (in interior wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- * Depending on equipment
- *2 If available
- *3 Diameter depends on equipment

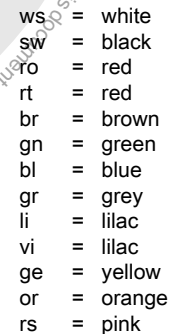
Vehicle electrical system control module, Left rear fog lamp bulb, Right tail lamp bulb, Left tail lamp, Left tail lamp bulb, Left rear turn signal bulb, Left brake lamp bulb, Right back-up lamp bulb



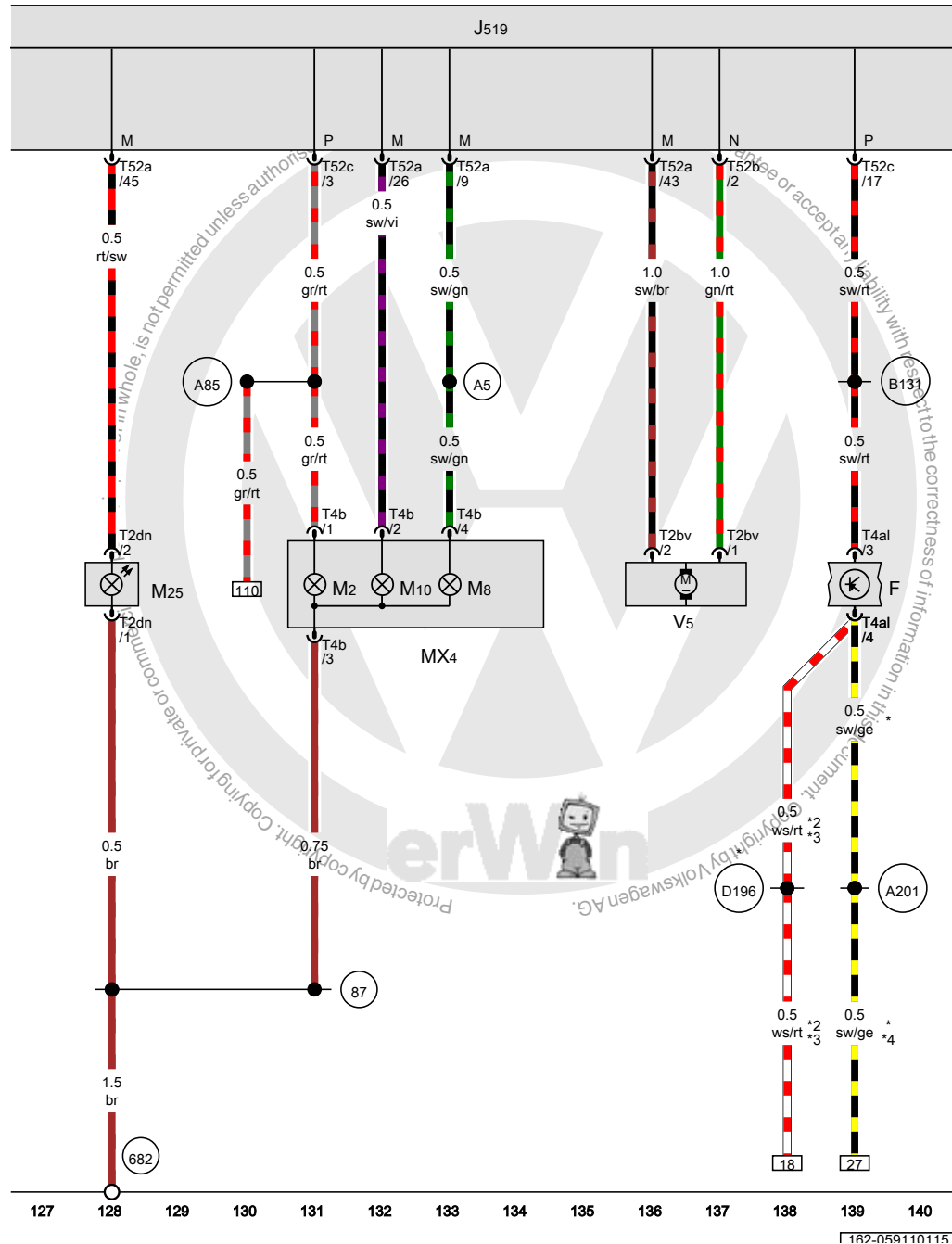
- J519 Vehicle electrical system control module
- L46 Left rear fog lamp bulb
- M2 Right tail lamp bulb
- MX3 Left tail lamp
- M4 Left tail lamp bulb
- MX5 Left tail lamp 2
- M6 Left rear turn signal bulb
- MX6 Right tail lamp 2
- M9 Left brake lamp bulb
- M16 Left back-up lamp bulb
- M17 Right back-up lamp bulb
- T4a 4-pin connector
- T4c 4-pin connector
- T4d 4-pin connector
- T52a 52-pin connector
- T52c 52-pin connector

- 86 Ground connection 1 (in rear wiring harness)
- A6 Left turn signal positive connection (in instrument panel wiring harness)
- A84 Connection 58L (in instrument panel wiring harness)
- A87 Back-up lamp connection (in instrument panel wiring harness)
- * Depending on equipment
- *2 Only for vehicles without US equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
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 gr = grey
 li = lilac
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 rs = pink



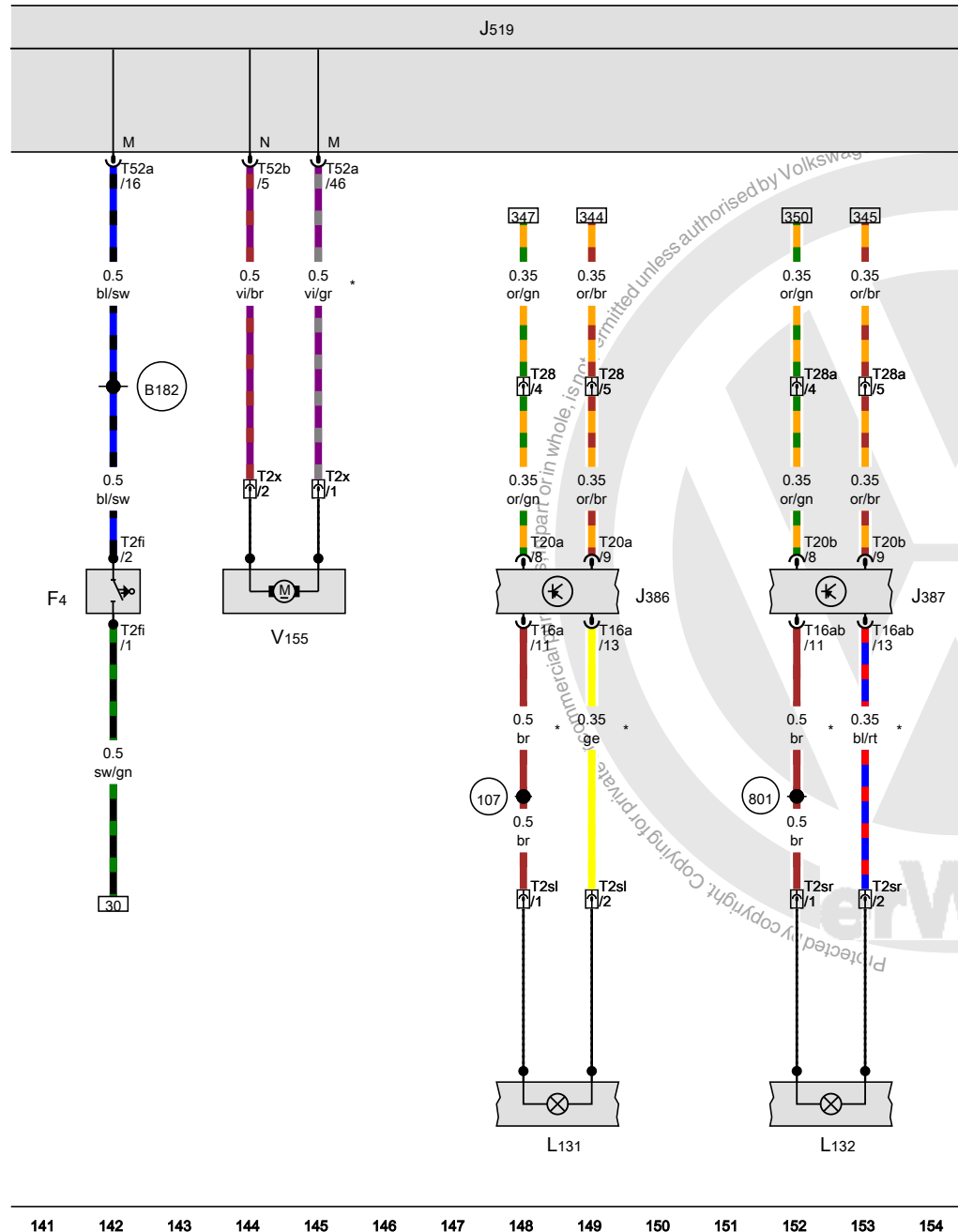
Brake lamp switch, Vehicle electrical system control module, Right tail lamp, Right rear turn signal bulb, Right brake lamp bulb, High-mounted brake lamp bulb



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- F Brake lamp switch
- J519 Vehicle electrical system control module
- M2 Right tail lamp bulb
- MX4 Right tail lamp
- M8 Right rear turn signal bulb
- M10 Right brake lamp bulb
- M25 High-mounted brake lamp bulb
- T2bv 2-pin connector
- T2dn 2-pin connector
- T4al 4-pin connector
- T4b 4-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V5 Windshield washer pump
- 87 Ground connection 2 (in rear wiring harness)
- 682 Ground connection 2 in right rear side panel
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- A85 Connection 58R (in instrument panel wiring harness)
- A201 Positive connection 6 (15a) (in instrument panel wiring harness)
- B131 Connection 54 (in interior wiring harness)
- D196 Connection 87a (in engine pre-wiring harness) 2
- * Depending on equipment
- *2 Only for vehicles with DSG transmission
- *3 Through May 2013
- *4 Diameter depends on equipment

Back-up lamp switch, Driver door control module, Front passenger door control module, Vehicle electrical system control module, Driver exterior rearview mirror turn signal bulb, Front passenger exterior rearview mirror turn signal bulb, Fuel filler door lock motor



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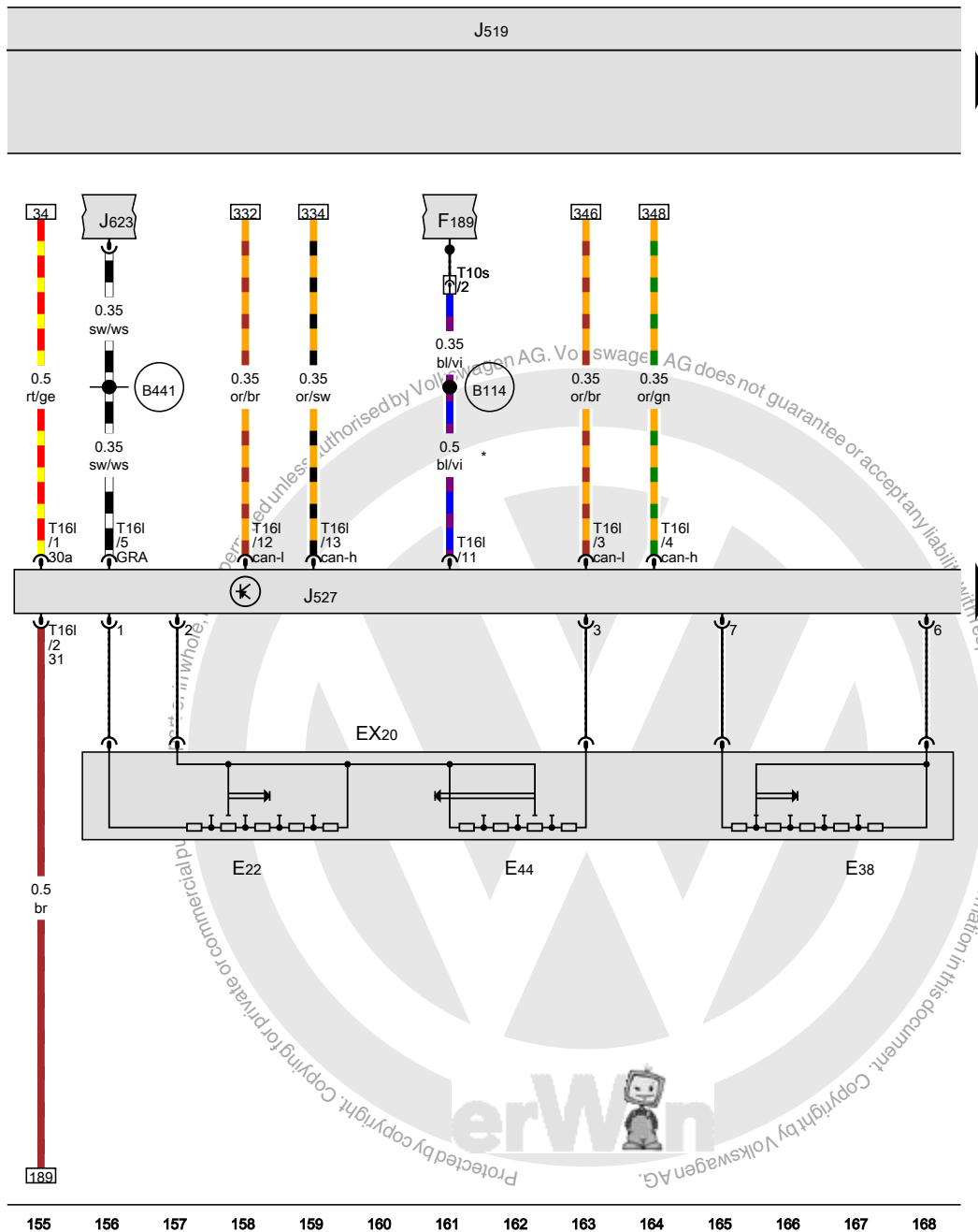
Right steering column switch, Windshield wiper intermittent mode switch, Windshield wiper intermittent regulator, Windshield and headlamp washer pump switch, Vehicle electrical system control module, Steering column electronics control module

- EX20 Right steering column switch
- E22 Windshield wiper intermittent mode switch
- E38 Windshield wiper intermittent regulator
- E44 Windshield and headlamp washer pump switch
- F189 tiptronic switch
- J519 Vehicle electrical system control module
- J527 Steering column electronics control module
- J623 Engine control module
- T10s 10-pin connector
- T16l 16-pin connector

B114 Lock switch connection (in interior wiring harness)

B441 Cruise control connection (in main wiring harness)

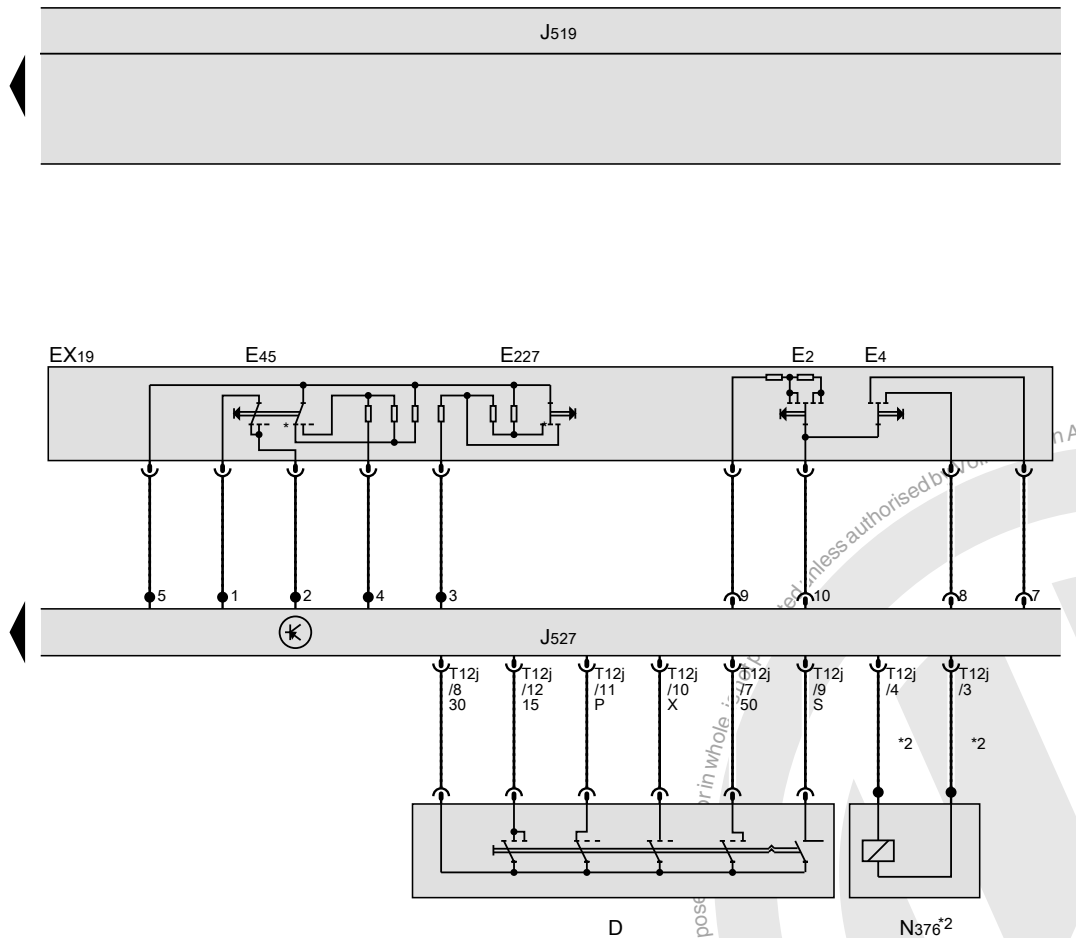
* Diameter depends on equipment



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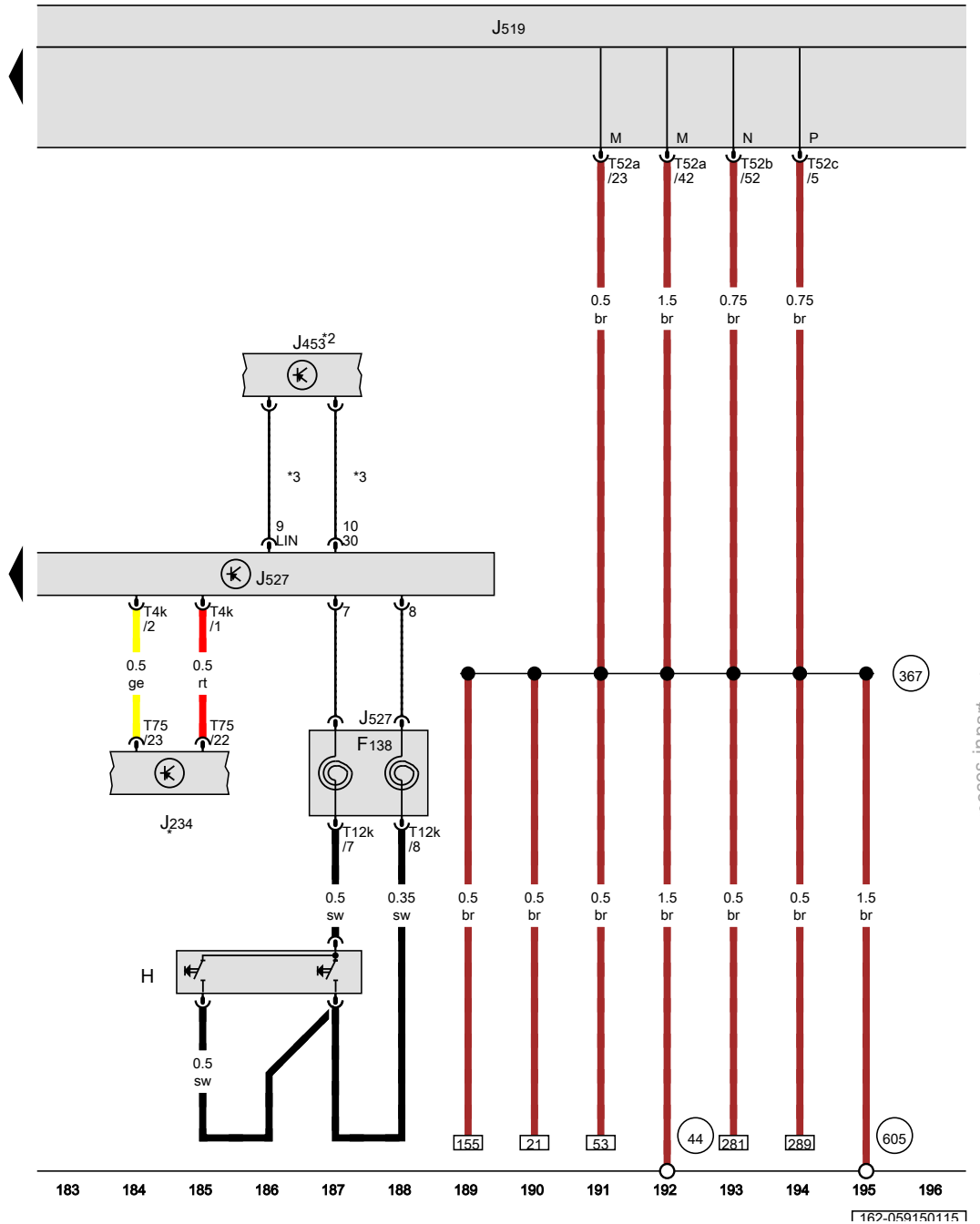
Ignition/starter switch, Turn signal switch, Headlamp dimmer/flasher switch, Left steering column switch, Cruise control switch, Cruise control -SET- button, Vehicle electrical system control module, Steering column electronics control module

- D Ignition/starter switch
- E2 Turn signal switch
- E4 Headlamp dimmer/flasher switch
- EX19 Left steering column switch
- E45 Cruise control switch
- E227 Cruise control -SET- button
- J519 Vehicle electrical system control module
- J527 Steering column electronics control module
- N376 Ignition switch key lock solenoid
- T12j 12-pin connector
- * Only for vehicles with cruise control
- *2 Only for vehicles with DSG transmission



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Vehicle electrical system control module, Steering column electronics control module



- F138 Airbag spiral spring/return spring with slip ring
- H Signal horn activation
- J234 Airbag control module
- J453 Multifunction steering wheel control module
- J519 Vehicle electrical system control module
- J527 Steering column electronics control module
- T4k 4-pin connector
- T12k 12-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T75 75-pin connector

44 Ground connection on A-pillar, lower left

367 Ground connection 2 (in main wiring harness)

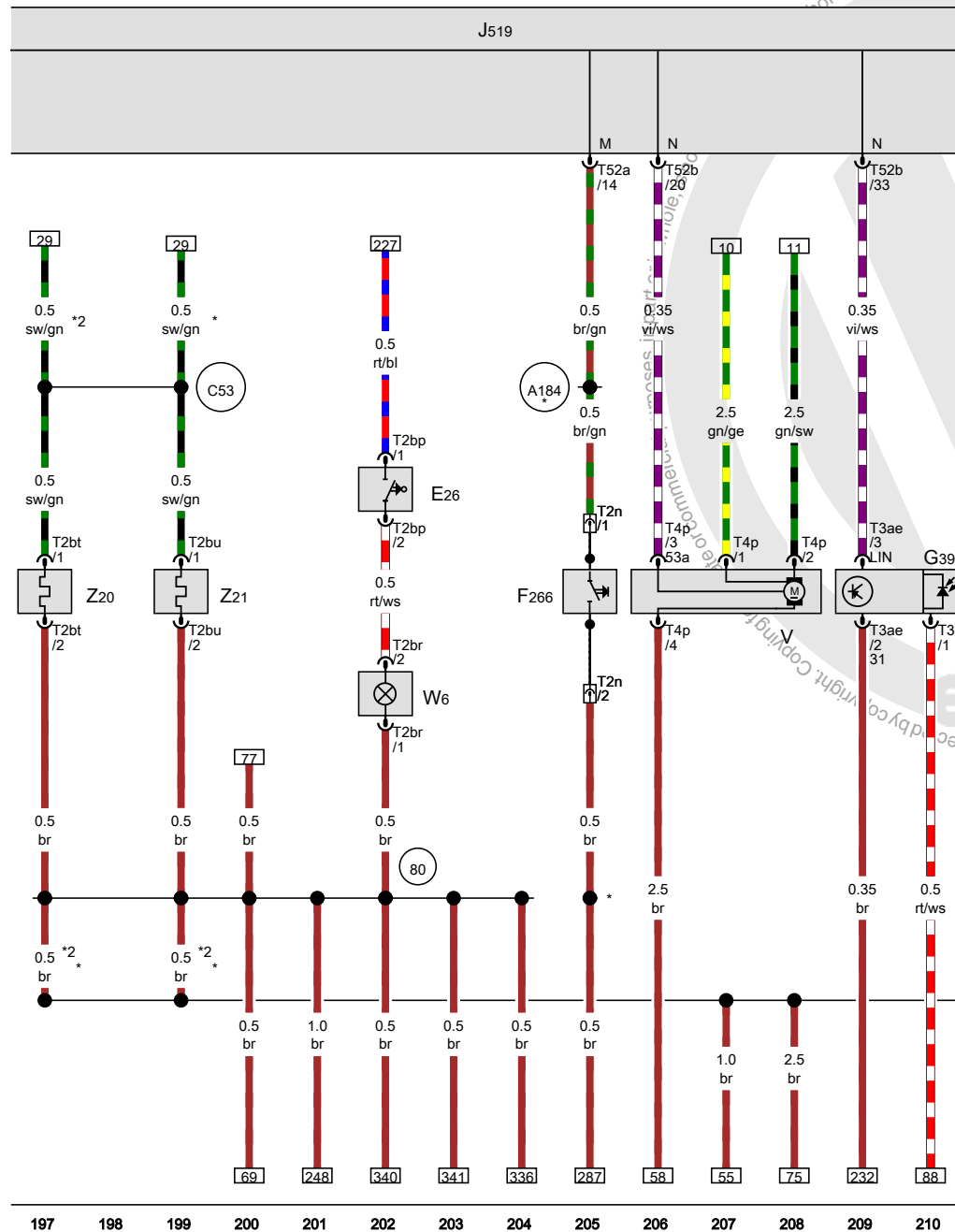
605 Ground connection on upper steering column

* Refer to applicable airbag wiring diagram

*2 Refer to applicable wiring diagram for multifunction steering wheel

*3 Only for vehicles with a multifunction steering wheel

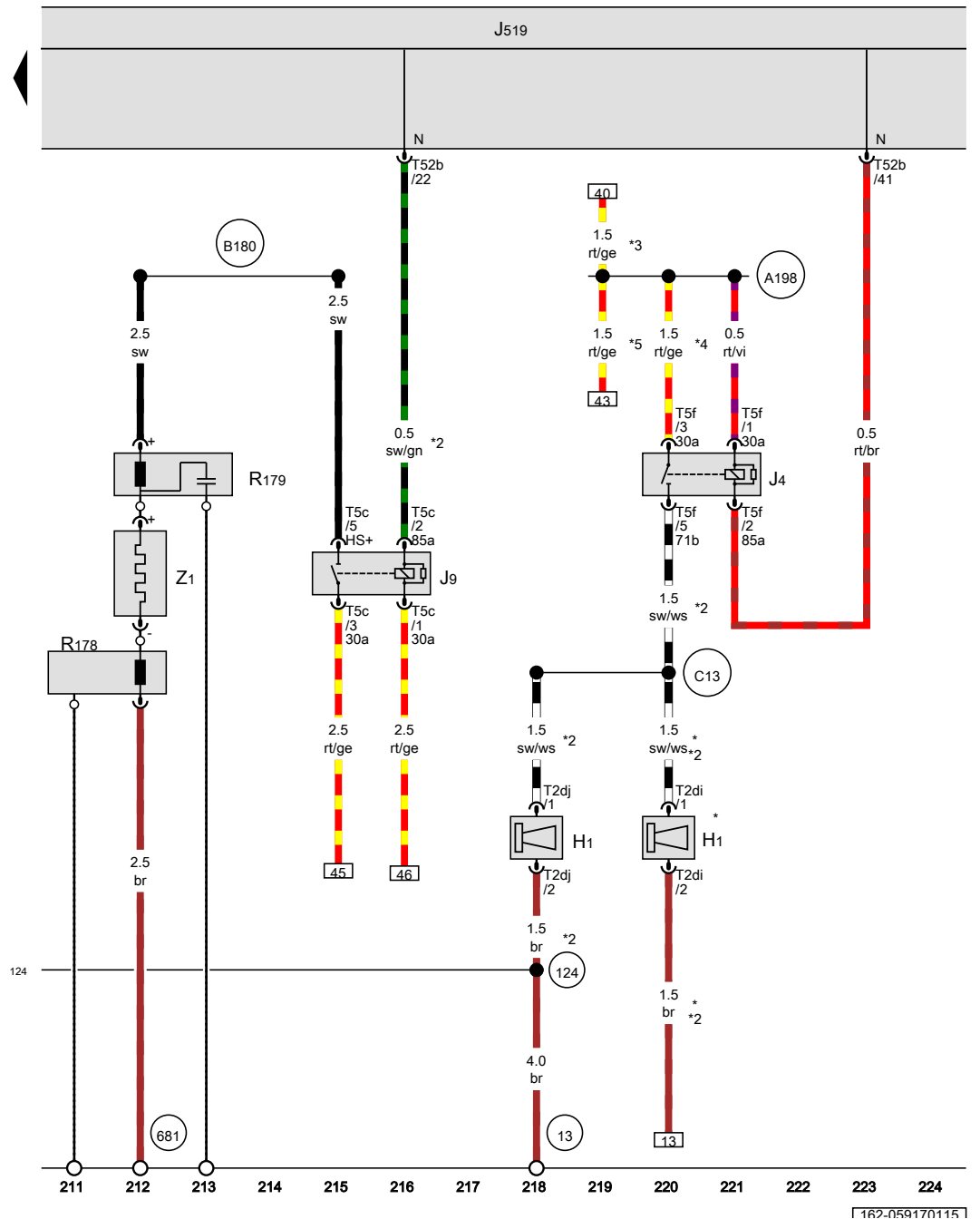
Glove compartment lamp switch, Engine hood contact switch, Vehicle electrical system control module, Windshield wiper motor, Glove compartment lamp, Left washer nozzle heater, Right washer nozzle heater



- E26 Glove compartment lamp switch
- F266 Engine hood contact switch
- G397 Rain/light recognition sensor
- J519 Vehicle electrical system control module
- T2bp 2-pin connector
- T2br 2-pin connector
- T2bt 2-pin connector
- T2bu 2-pin connector
- T2n 2-pin connector, near the headlamps
- T3ae 3-pin connector
- T4p 4-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- V Windshield wiper motor
- W6 Glove compartment lamp
- Z20 Left washer nozzle heater
- Z21 Right washer nozzle heater

- 80 Ground connection 1 (in instrument cluster wiring harness)
- 124 Ground connection (in right engine compartment wiring harness)
- A184 Hood contact switch connection (in instrument panel wiring harness)
- C53 Positive connection (x) (in heated spray nozzle wiring harness)
- * Through May 2013
- *2 From June 2013

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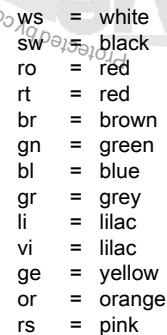
Signal horn and dual tone horn, Dual tone horn relay, Rear window defogger relay, Vehicle electrical system control module, FM frequency filter in negative wire, FM frequency filter in positive wire, Rear window defogger

- H1 Signal horn and dual tone horn
- J4 Dual tone horn relay
- J9 Rear window defogger relay
- J519 Vehicle electrical system control module
- R178 FM frequency filter in negative wire
- R179 FM frequency filter in positive wire
- T2di 2-pin connector
- T2dj 2-pin connector
- T5c 5-pin connector
- T5f 5-pin connector
- T52b 52-pin connector
- Z1 Rear window defogger

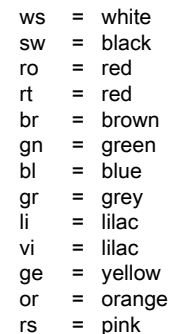
- 13 Ground connection in engine compartment, right
- 124 Ground connection (in right engine compartment wiring harness)
- 681 Ground connection 1 in right rear side panel
- A198 Positive connection 6 (30a) (in instrument panel wiring harness)
- B180 Rear window defogger connection (in interior wiring harness)
- C13 Positive connection (in dual tone horn wiring harness)

- * Only for vehicles with dual tone horn
- *2 Diameter depends on equipment
- *3 Through May 2013
- *4 Depending on equipment
- *5 From June 2013

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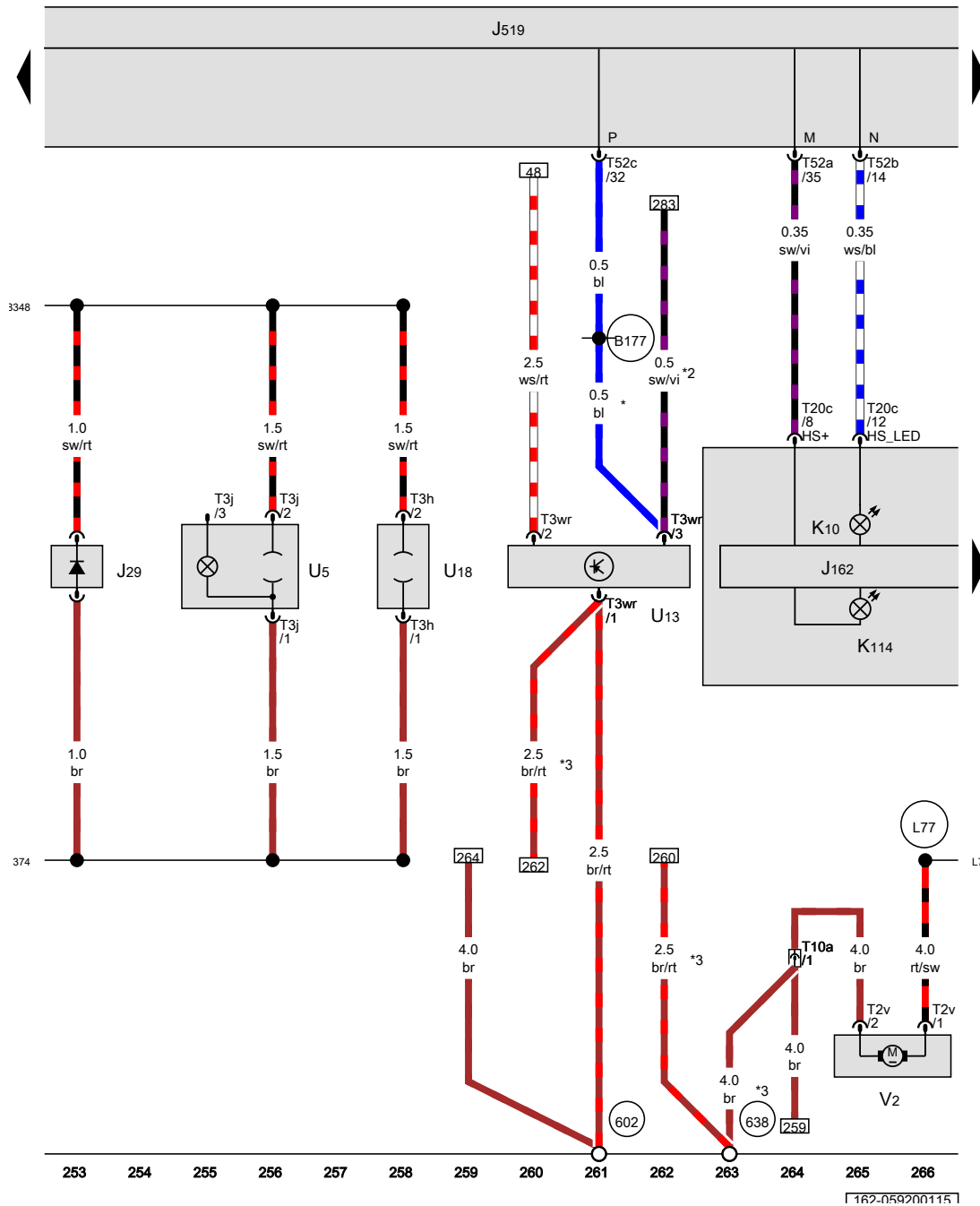


* The color of the wires depends on vehicle equipment



- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 347 Ground connection (in roof wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 374 Ground connection 9 (in main wiring harness)
- B250 Positive connection (in roof wiring harness)
- B348 Connection 1 (75a) (in main wiring harness)
- B552 Positive connection 2 (in roof wiring harness)

* Depending on equipment



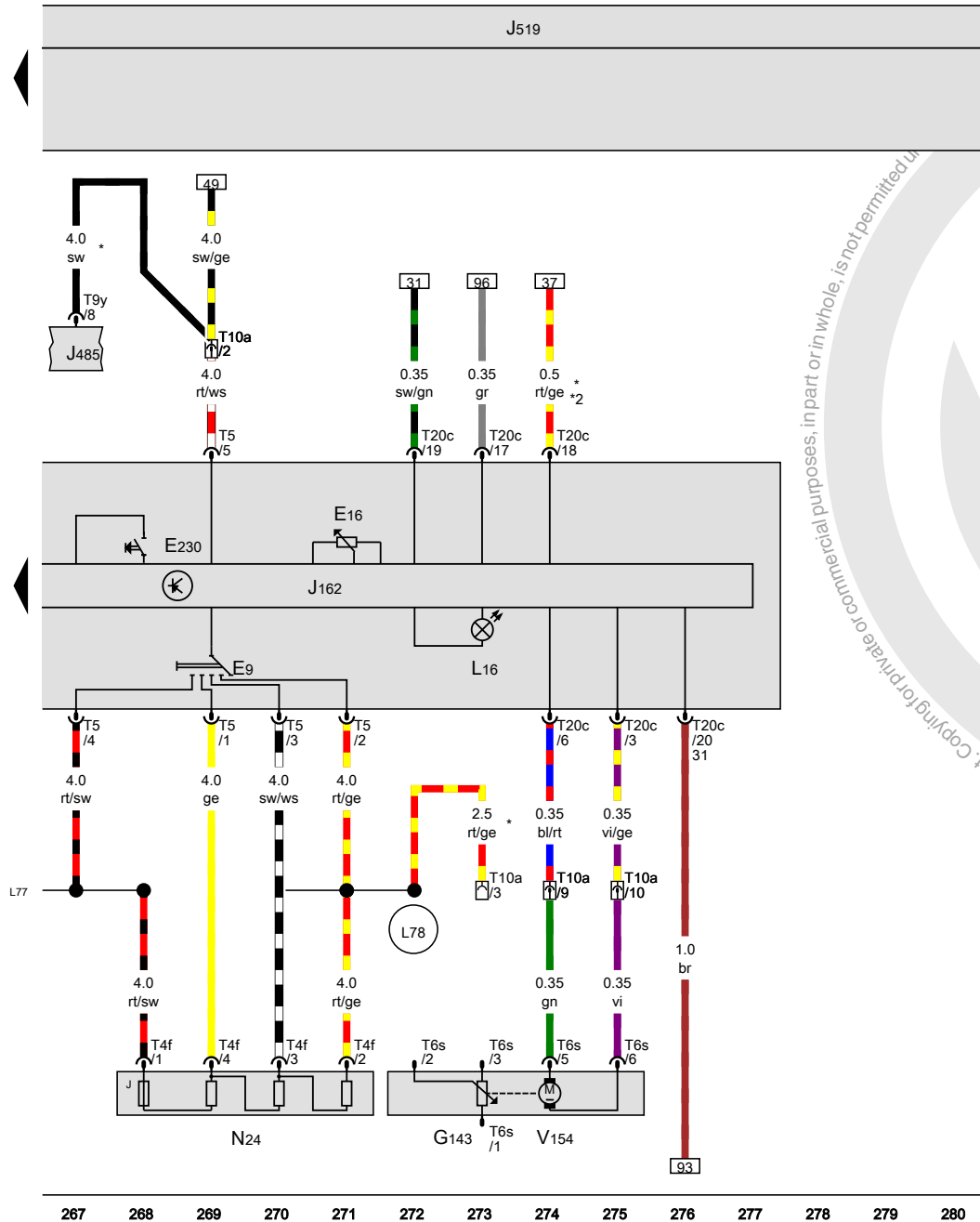
Blocking diode, Heater control module, Vehicle electrical system control module, 12 V socket, Converter with socket, 12 V-230 V, Fresh air blower

- J29 Blocking diode, in the interior wiring harness
- J162 Heater control module
- J519 Vehicle electrical system control module
- K10 Rear window defogger indicator lamp
- K114 Fresh air and recirculation mode indicator lamp
- T2v 2-pin connector
- T3h 3-pin connector
- T3j 3-pin connector
- T3wr 3-pin connector
- T10a 10-pin connector, on the heating and A/C unit
- T20c 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- U5 12 V socket
- U13 Converter with socket, 12 V-230 V
- U18 12 V socket 2
- V2 Fresh air blower

- 374 Ground connection 9 (in main wiring harness)
- 602 Ground connection in left front footwell
- 638 Ground connection on right A-pillar
- B177 Connection 61 (in interior wiring harness)
- B348 Connection 1 (75a) (in main wiring harness)
- L77 Connection (in fresh air blower wiring harness)

- * Only for vehicles without Start/Stop system
- *2 Only for vehicles with Start/Stop system
- *3 Only for right-hand drive vehicles

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Fresh air blower switch, Heater control module, Vehicle electrical system control module, Fresh air blower series resistor with fuse, Fresh/recirculated air door motor

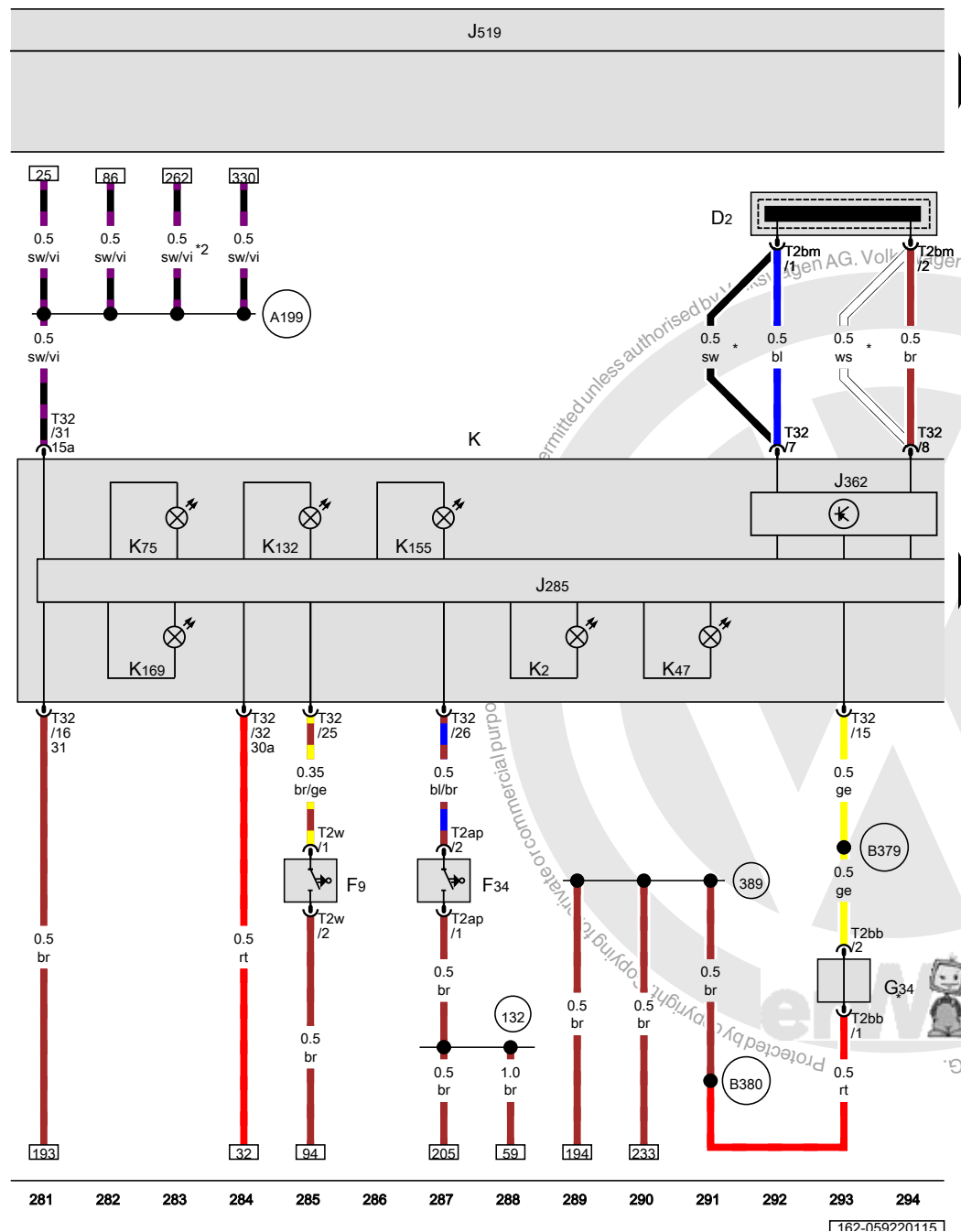
- E9 Fresh air blower switch
- E16 Heater/heat output switch
- E230 Rear window defogger button
- G143 Recirculation door motor position sensor
- J162 Heater control module
- J485 Parking heater operation relay
- J519 Vehicle electrical system control module
- L16 Fresh air control illumination bulb
- N24 Fresh air blower series resistor with fuse
- T4f 4-pin connector
- T5 5-pin connector
- T6s 6-pin connector
- T9y 9-pin connector
- T10a 10-pin connector, on the heating and A/C unit
- T20c 20-pin connector
- V154 Fresh/recirculated air door motor

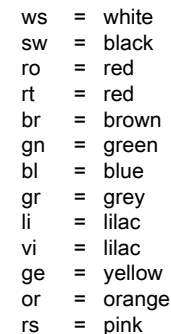
- L77 Connection (in fresh air blower wiring harness)
- L78 Connection 1 (in fresh air blower wiring harness)

* Only for vehicles with auxiliary coolant heater
*2 Diameter depends on equipment

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Anti-theft immobilizer reader coil, Parking brake indicator lamp switch, Brake fluid level warning switch, Left front brake pad wear sensor, Anti-theft immobilizer control module, Vehicle electrical system control module, Instrument cluster

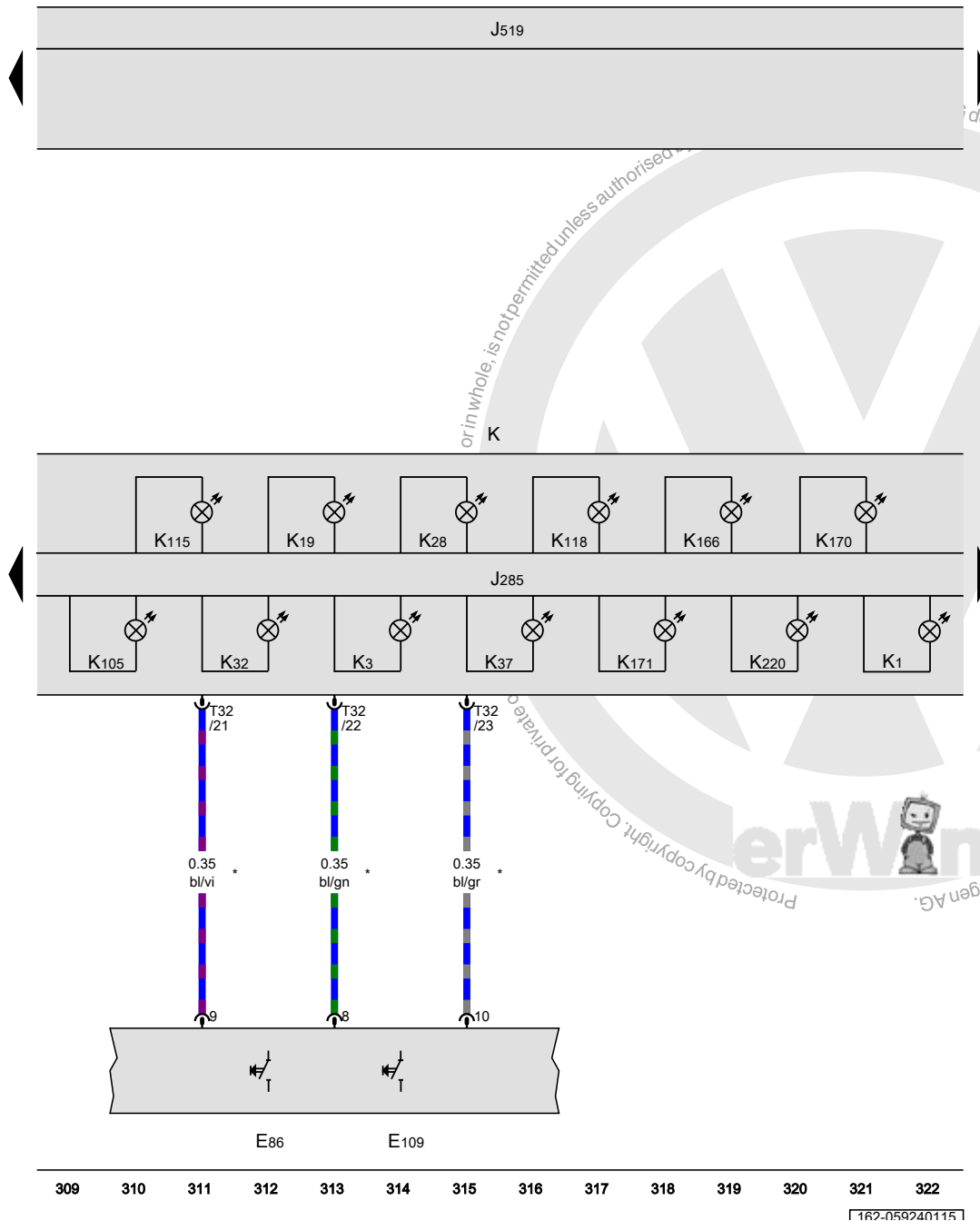




* Depending on equipment
*2 Refer to applicable engine wiring diagram

Multifunction indicator selection switch, Multifunction indicator memory switch, Vehicle electrical system control module, Instrument cluster

- E86 Multifunction indicator selection switch
- E109 Multifunction indicator memory switch
- J285 Instrument cluster control module
- J519 Vehicle electrical system control module
- K Instrument cluster
- K1 High beam indicator lamp
- K3 Oil pressure indicator lamp
- K19 Seat belt indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K32 Brake pad wear indicator lamp
- K37 Windshield washer fluid level indicator lamp
- K105 Low fuel level indicator lamp
- K115 Anti-theft immobilizer system indicator lamp
- K118 Brake system indicator lamp
- K166 Door ajar indicator lamp
- K170 Lamp failure indicator lamp
- K171 Hood -open- indicator lamp
- K220 Tire pressure monitoring display indicator lamp
- T32 32-pin connector
- * Only for vehicles with multifunction display



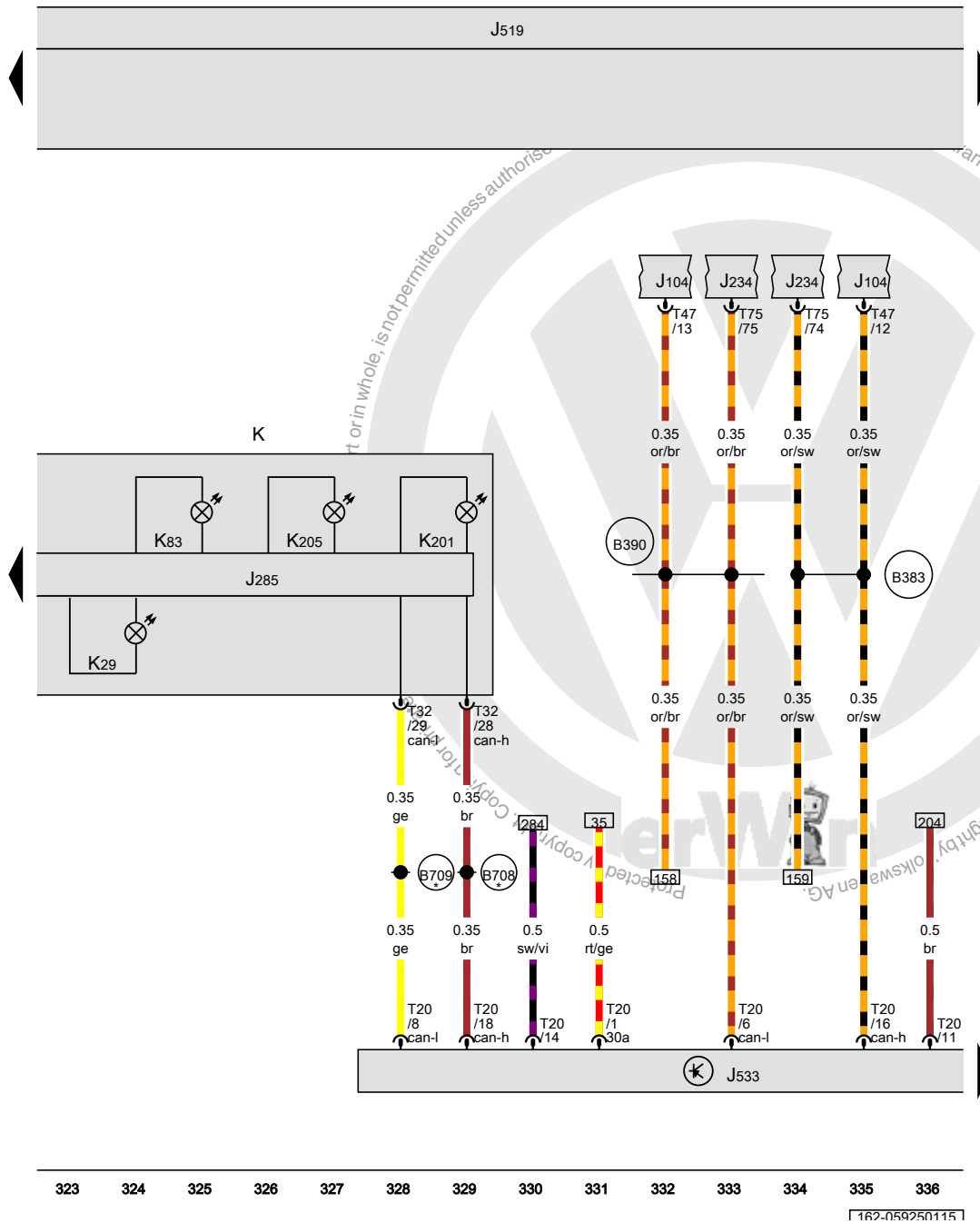
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Vehicle electrical system control module, Data bus on board diagnostic interface, Instrument cluster

- J104 ABS control module
- J234 Airbag control module
- J285 Instrument cluster control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- K Instrument cluster
- K29 Glow plug indicator lamp
- K83 Malfunction indicator lamp
- K201 Fuel filler door lock indicator lamp
- K205 Daytime running lamp indicator lamp
- T20 20-pin connector
- T32 32-pin connector
- T47 47-pin connector
- T75 75-pin connector

- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B708 Instrument cluster CAN bus high connection 1 (in main wiring harness)
- B709 Instrument cluster CAN bus low connection 1 (in main wiring harness)
- * From June 2013

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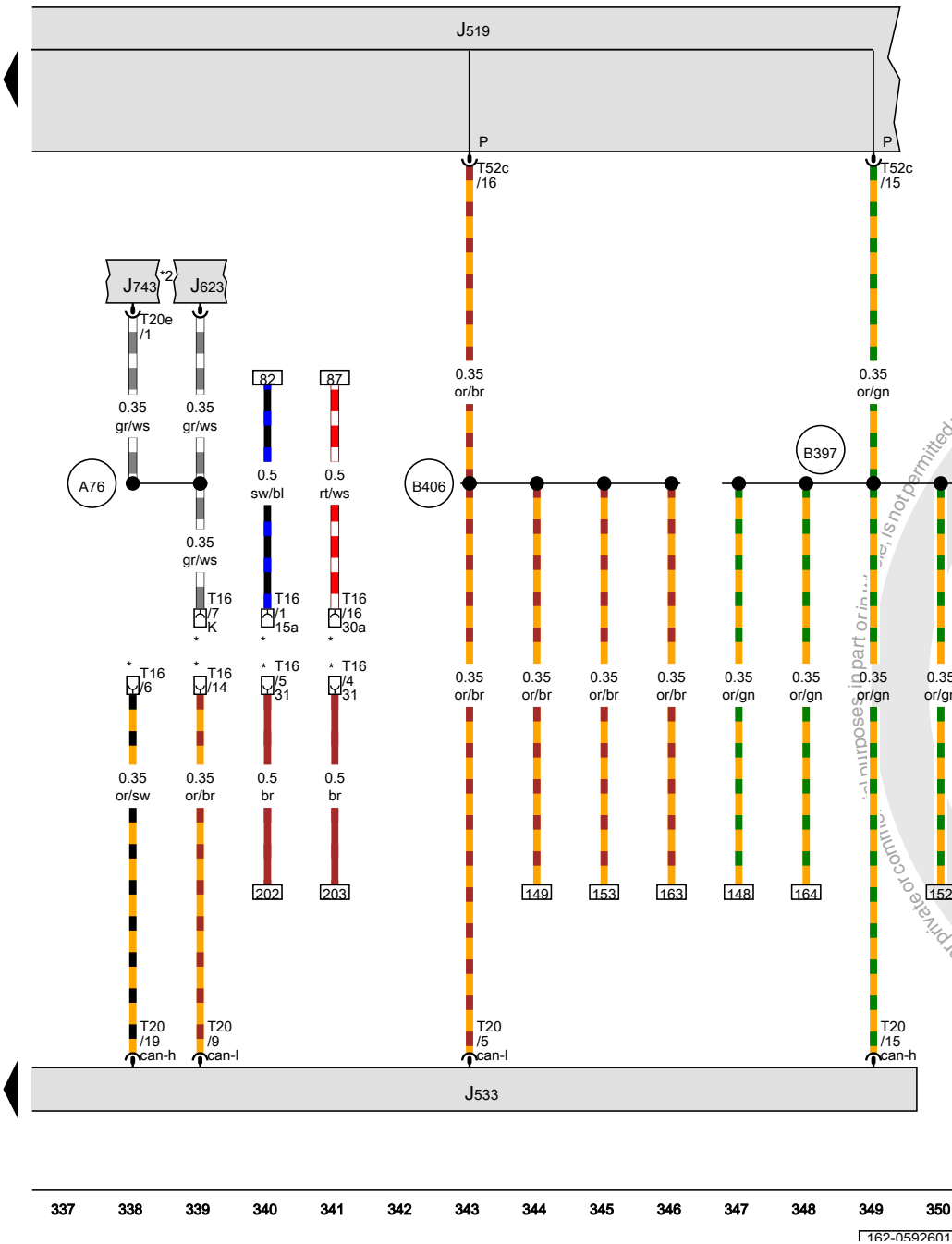


Vehicle electrical system control module, Data bus on board diagnostic interface

- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- J623 Engine control module
- J743 DSG transmission Mechatronic
- T16 16-pin connector
- T20 20-pin connector
- T20e 20-pin connector
- T52c 52-pin connector

- (A76) KS-diagnostic lead connection (in instrument panel wiring harness)
- (B397) Comfort system CAN bus high connection 1 (in main wiring harness)
- (B406) Comfort system CAN bus low connection 1 (in main wiring harness)

- * Diagnostic connector
- *2 If available



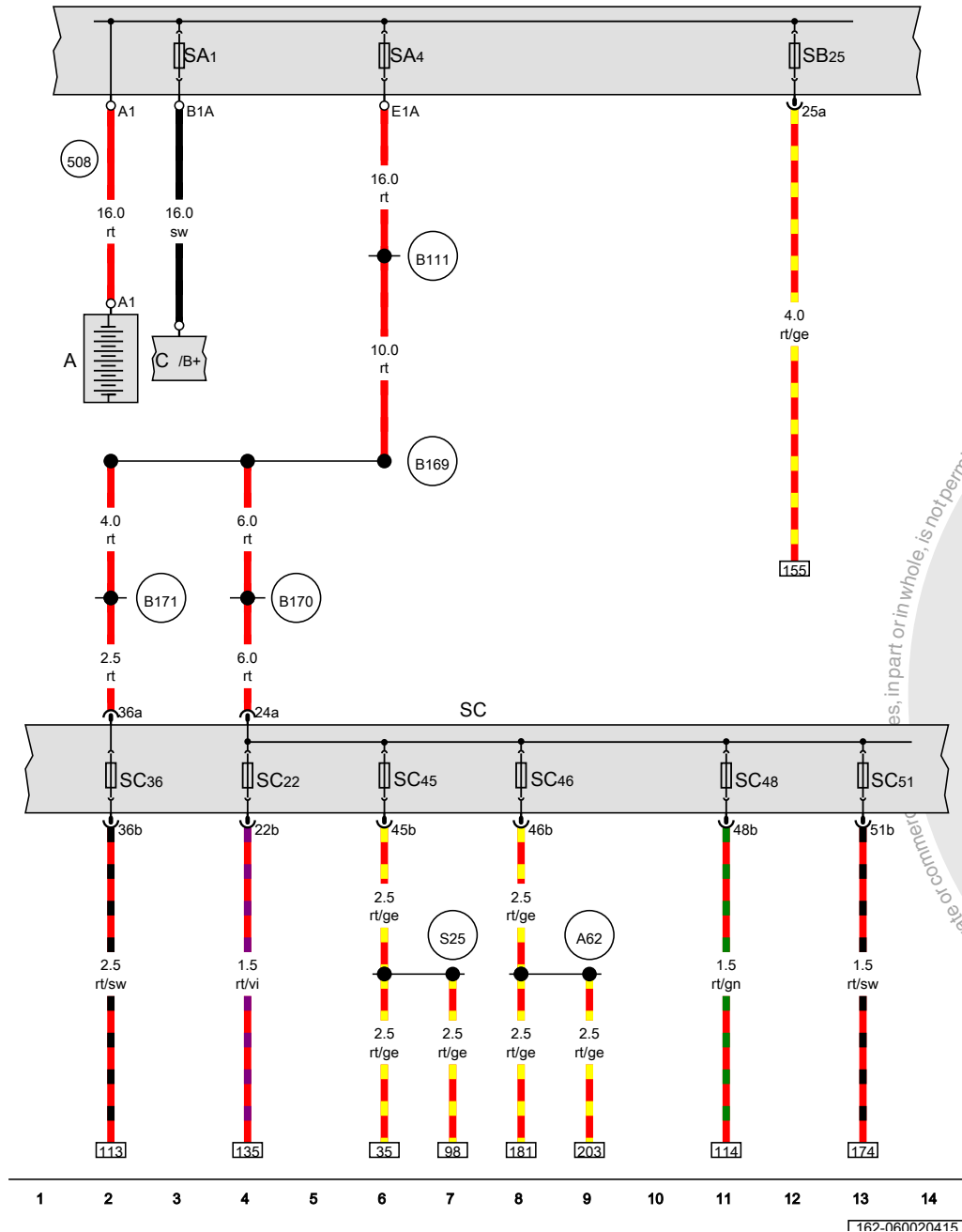
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Convenience system , (AW1)

from October 2010



**Battery, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A),
Fuse 25 (on fuse panel B), Fuse panel C**



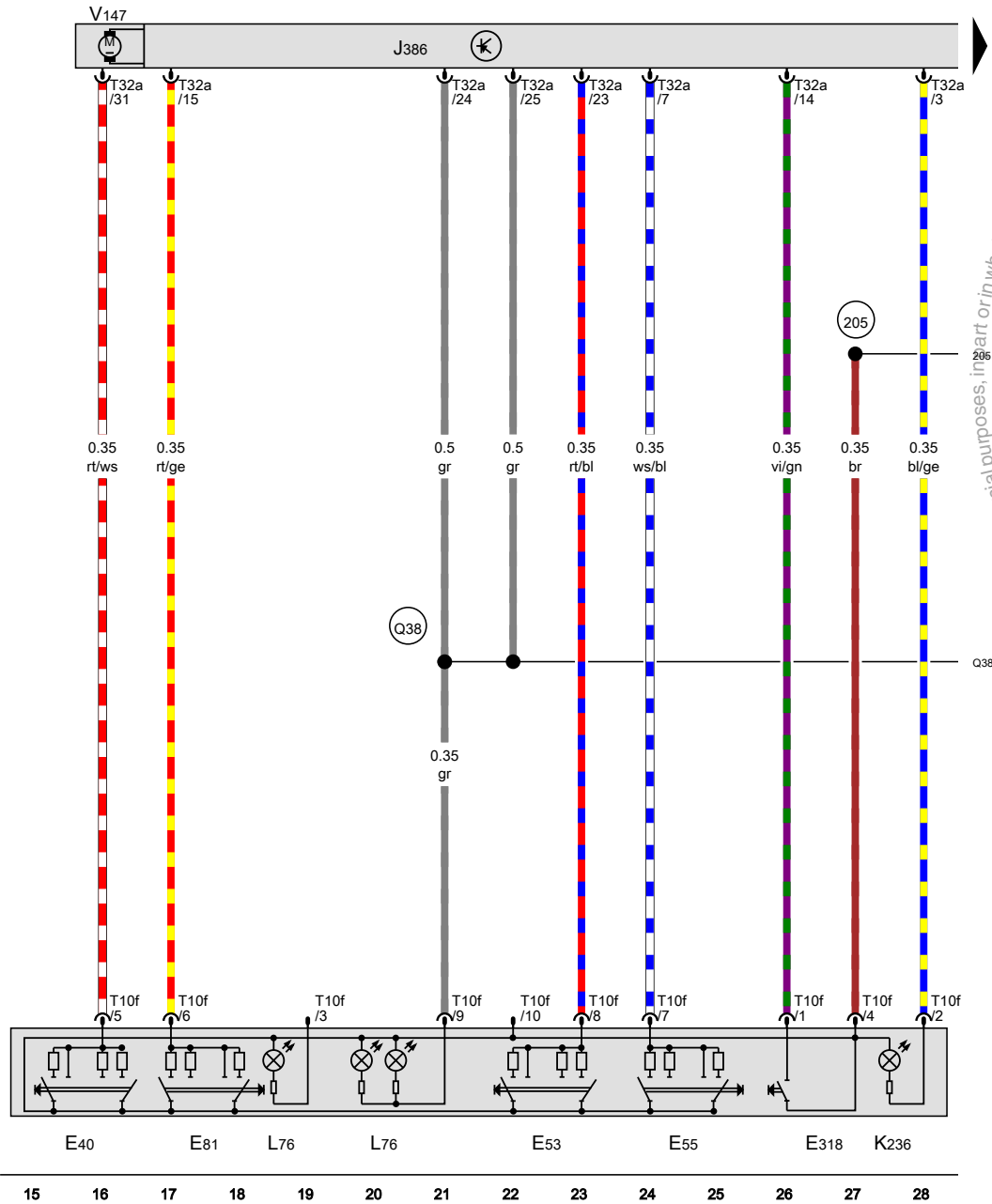
- A Battery
- C Generator
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SB25 Fuse 25 (on fuse panel B)
- SC Fuse panel C
- SC22 Fuse 22 (on fuse panel C)
- SC36 Fuse 36 (on fuse panel C)
- SC45 Fuse 45 (on fuse panel C)
- SC46 Fuse 46 (on fuse panel C)
- SC48 Fuse 48 (on fuse panel C)
- SC51 Fuse 51 (on fuse panel C)

- 508 Terminal 30 threaded connection (on E-box)
- A62 Power window connection (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- S25 Positive connection (30a) (in central locking system wiring harness)

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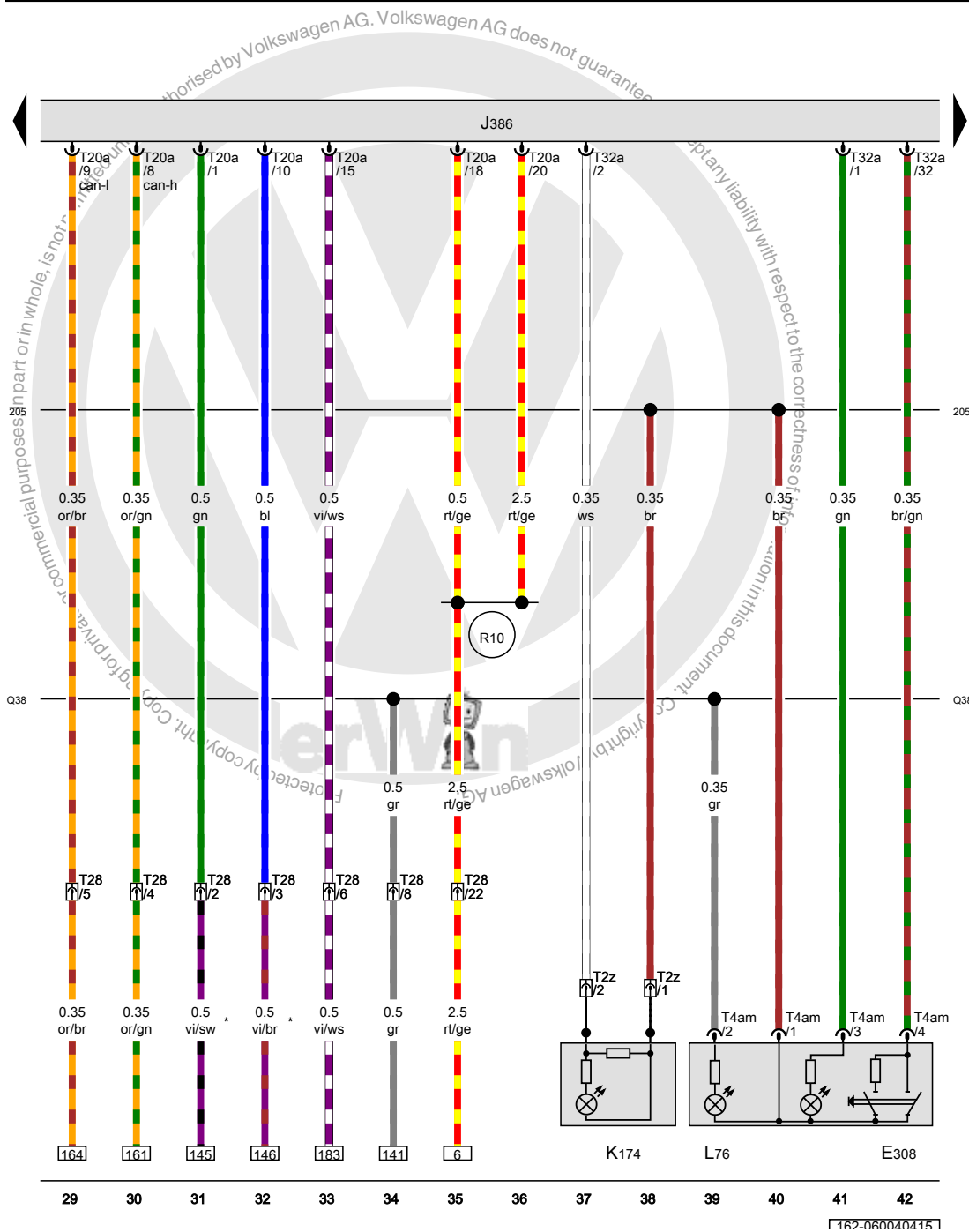
Left front window regulator switch, Left rear window regulator switch in driver door, Right rear window regulator switch in driver door, Right front power window switch in driver door, Child safety lock button, Driver door control module

- E40 Left front window regulator switch
- E53 Left rear window regulator switch in driver door
- E55 Right rear window regulator switch in driver door
- E81 Right front power window switch in driver door
- E318 Child safety lock button
- J386 Driver door control module
- K236 Child safety lock -activated- indicator lamp
- L76 Push button illumination bulb
- T10f 10-pin connector
- T32a 32-pin connector
- V147 Driver window regulator motor
- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)



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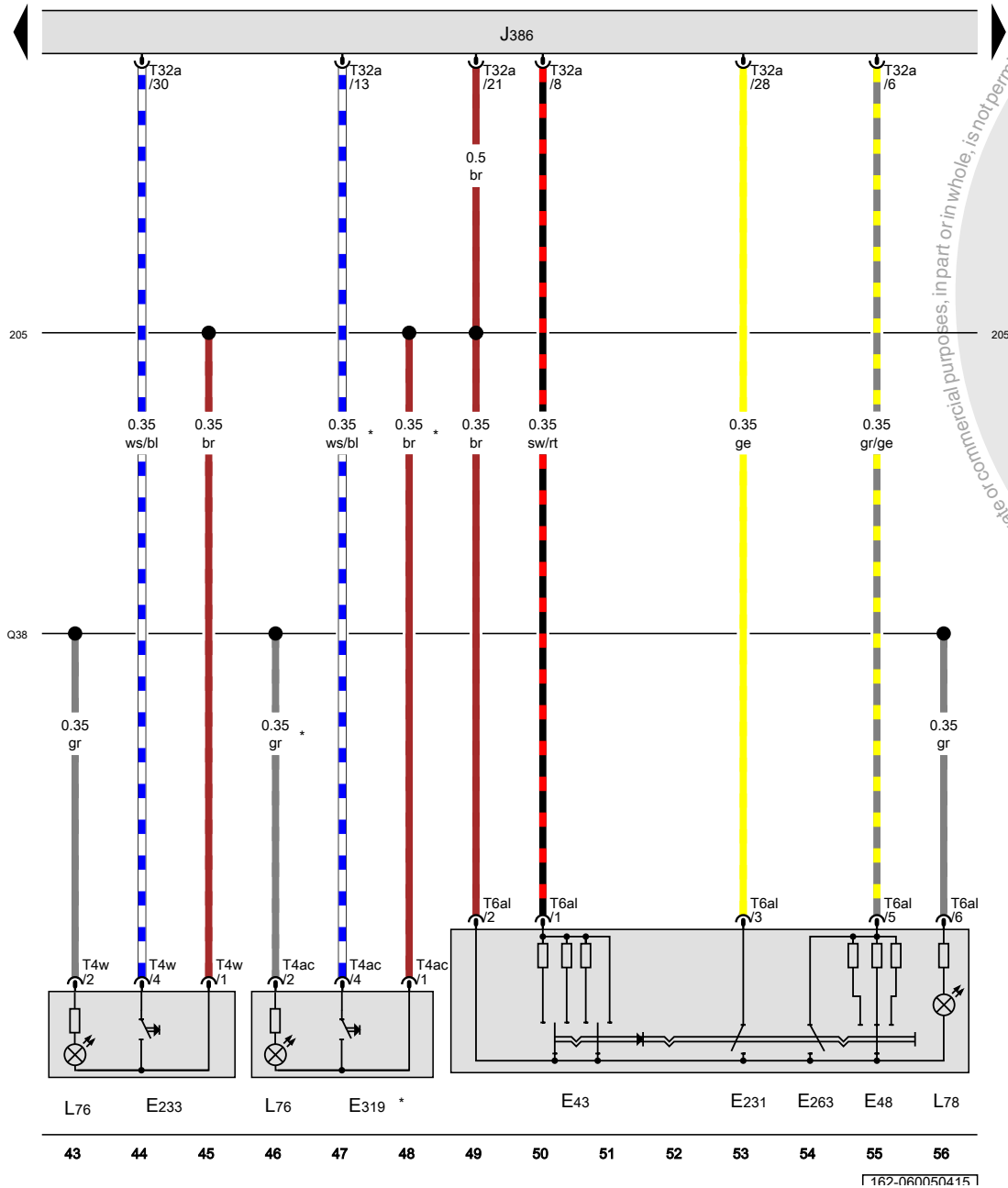
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Driver interior locking button, Driver door control module, Driver interior locking indicator lamp

- E308 Driver interior locking button
- J386 Driver door control module
- K174 Driver interior locking indicator lamp
- L76 Push button illumination bulb
- T2z Double connector
- T4am 4-pin connector
- T20a 20-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T32a 32-pin connector

- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- R10 Positive connection 1 (30) (in driver door wiring harness)
- * Omitted as a running change

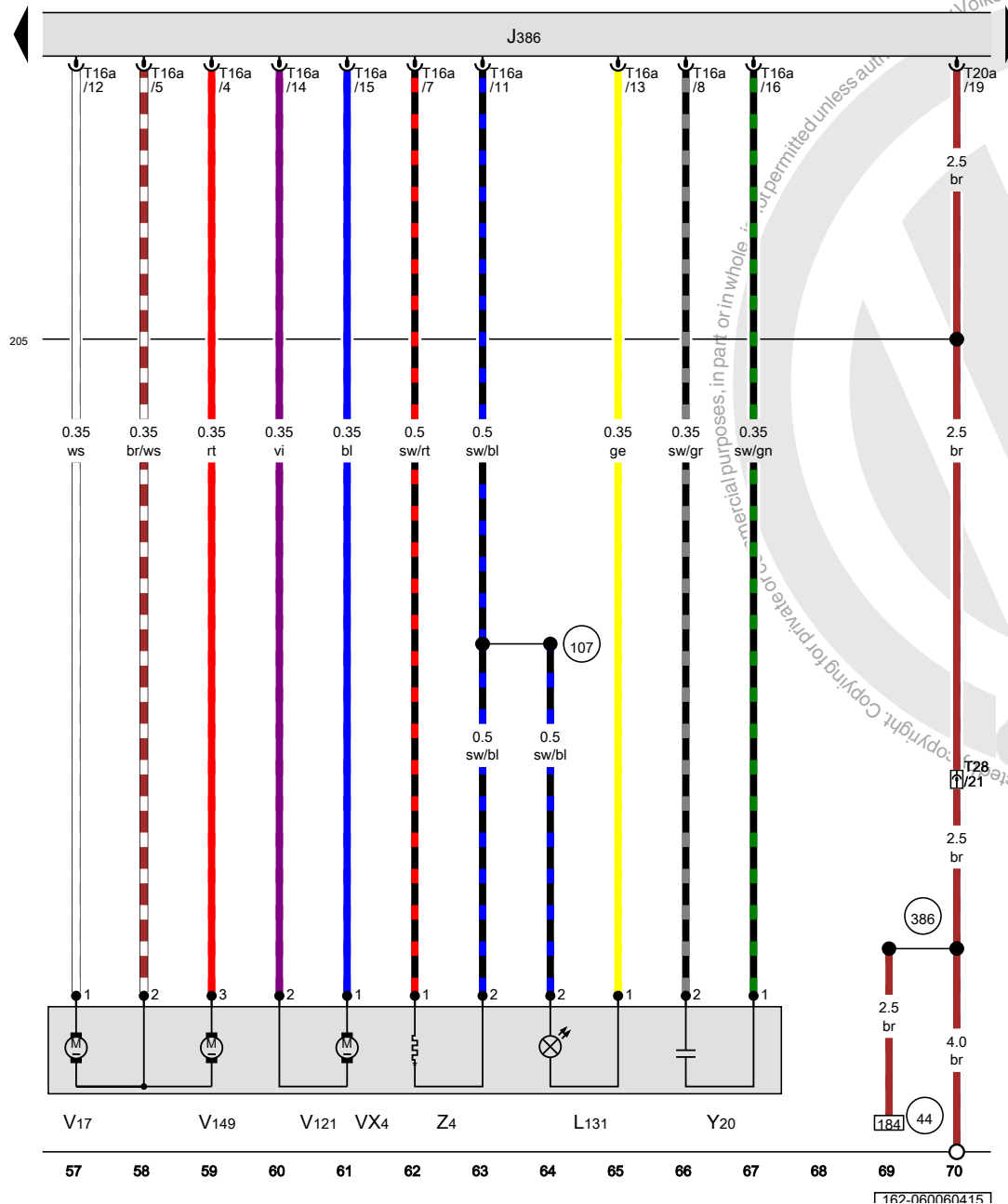


Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Rear lid remote release button, Mirror folding switch, Fuel filler door release button, Driver door control module, Mirror adjustment switch illumination bulb

- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E231 Exterior rearview mirror heating switch
- E233 Rear lid remote release button
- E263 Mirror folding switch
- E319 Fuel filler door release button
- J386 Driver door control module
- L76 Push button illumination bulb
- L78 Mirror adjustment switch illumination bulb
- T4ac 4-pin connector
- T4w 4-pin connector
- T6al 6-pin connector
- T32a 32-pin connector

- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- * USA only

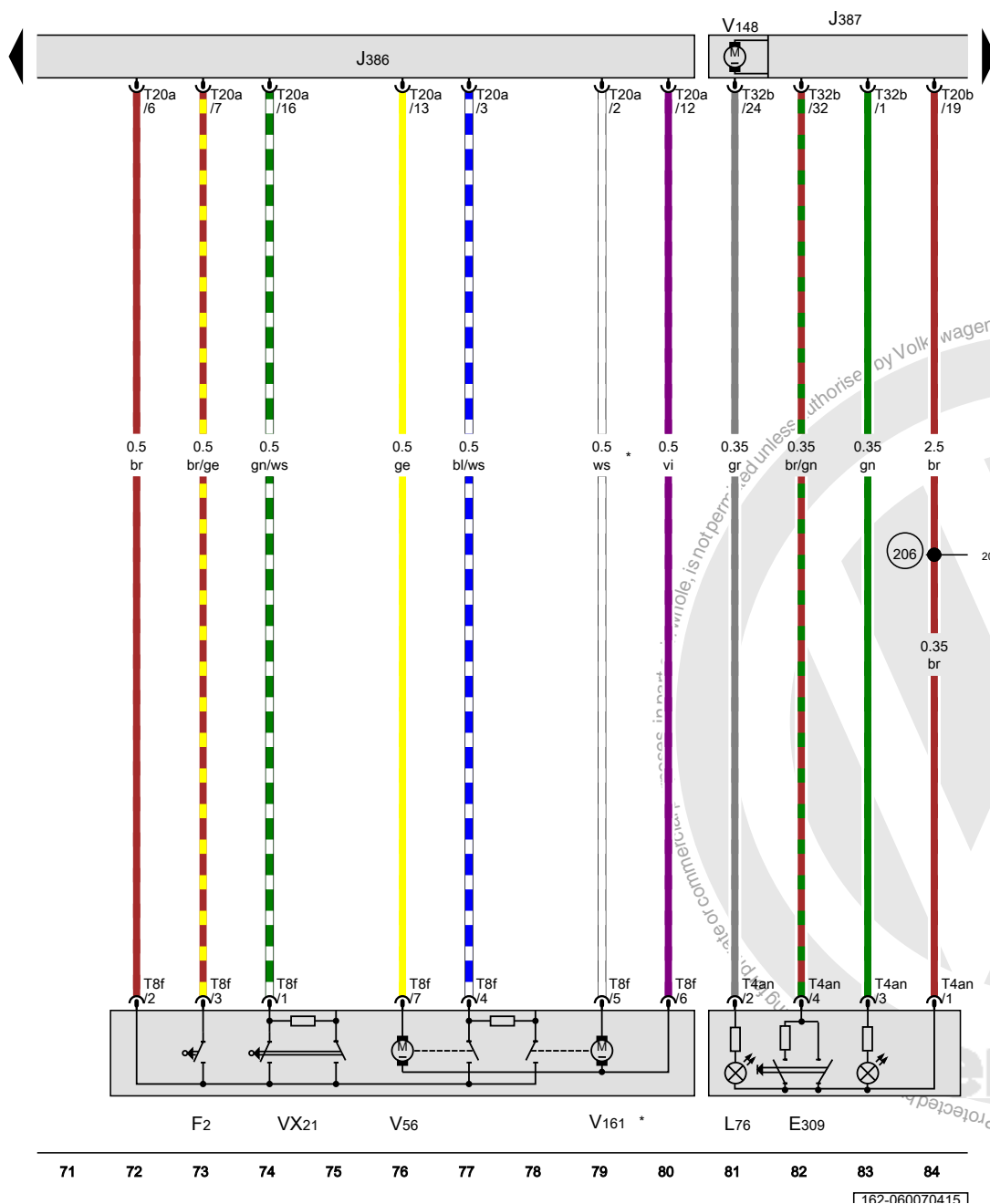
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Driver door control module, Driver exterior rearview mirror, Driver mirror adjustment motor 2, Driver exterior rearview mirror folding motor, Driver mirror adjustment motor, Driver automatic dimming exterior rearview mirror

- J386 Driver door control module
- L131 Driver exterior rearview mirror turn signal bulb
- T16a 16-pin connector
- T20a 20-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- VX4 Driver exterior rearview mirror
- V17 Driver mirror adjustment motor 2
- V121 Driver exterior rearview mirror folding motor
- V149 Driver mirror adjustment motor
- Y20 Driver automatic dimming exterior rearview mirror
- Z4 Heated driver exterior rearview mirror
- 44 Ground connection on A-pillar, lower left
- 107 Ground connection (in exterior mirror wiring harness)
- 205 Ground connection (in driver door wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- * pre-wired component

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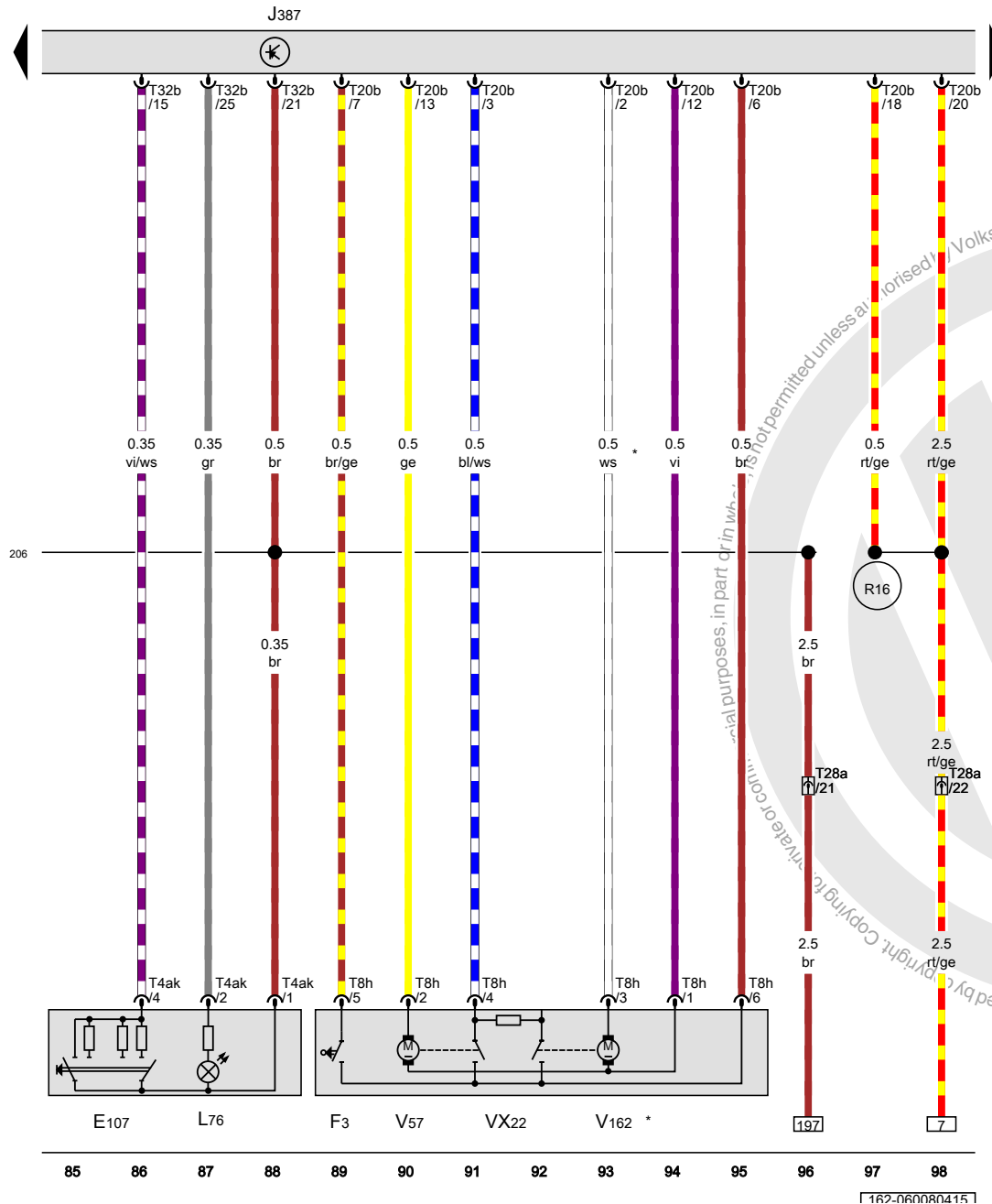


Front passenger interior locking button, Driver door contact switch, Driver door control module, Front passenger door control module, Driver door lock unit, Driver door central locking system motor, Front passenger window regulator motor

- E309 Front passenger interior locking button
- F2 Driver door contact switch
- J386 Driver door control module
- J387 Front passenger door control module
- L76 Push button illumination bulb
- T4an 4-pin connector
- T8f 8-pin connector
- T20a 20-pin connector
- T20b 20-pin connector
- T32b 32-pin connector
- VX21 Driver door lock unit
- V56 Driver door central locking system motor
- V148 Front passenger window regulator motor
- V161 Driver door central locking -SAFE- motor

206 Ground connection (in front passenger door wiring harness)

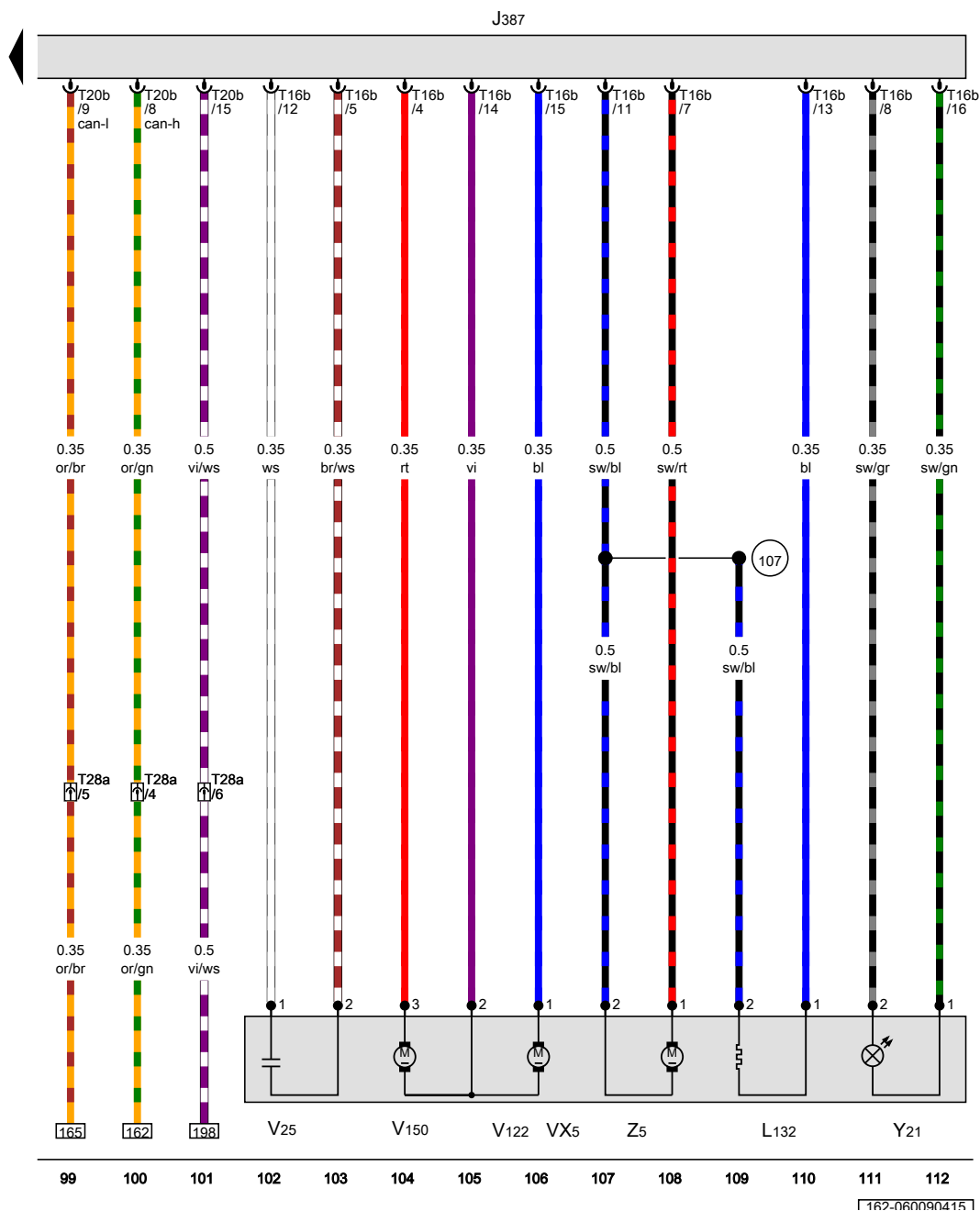
* Not for USA



Front passenger door window regulator switch, Front passenger door contact switch, Front passenger door control module, Front passenger door lock unit, Front passenger door central locking system motor

- E107 Front passenger door window regulator switch
- F3 Front passenger door contact switch
- J387 Front passenger door control module
- L76 Push button illumination bulb
- T4ak 4-pin connector
- T8h 8-pin connector
- T20b 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T32b 32-pin connector
- VX22 Front passenger door lock unit
- V57 Front passenger door central locking system motor
- V162 Front passenger door central locking -SAFE- motor
- 206 Ground connection (in front passenger door wiring harness)
- R16 Positive connection 1 (30) (in front passenger door wiring harness)
- * Not for USA

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 rs = pink

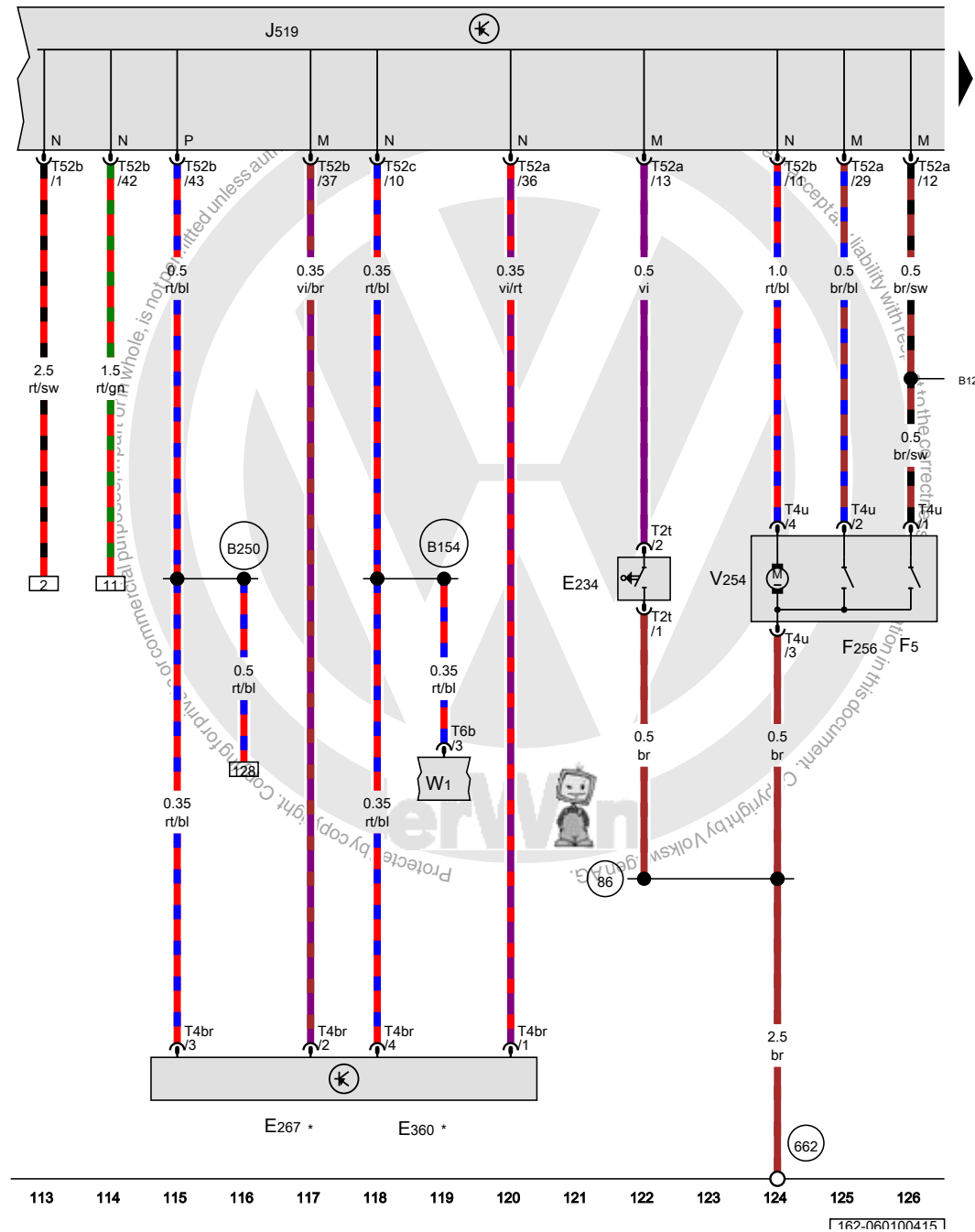


Front passenger door control module, Front passenger exterior rearview mirror, Front passenger side mirror adjustment motor 2, Front passenger exterior rearview mirror folding motor, Front passenger mirror adjustment motor, Front passenger automatic dimming exterior rearview mirror

- J387 Front passenger door control module
- L132 Front passenger exterior rearview mirror turn signal bulb
- T16b 16-pin connector
- T20b 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- VX5 Front passenger exterior rearview mirror
- V25 Front passenger side mirror adjustment motor 2
- V122 Front passenger exterior rearview mirror folding motor
- V150 Front passenger mirror adjustment motor
- Y21 Front passenger automatic dimming exterior rearview mirror
- Z5 Heated front passenger exterior rearview mirror

107 Ground connection (in exterior mirror wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



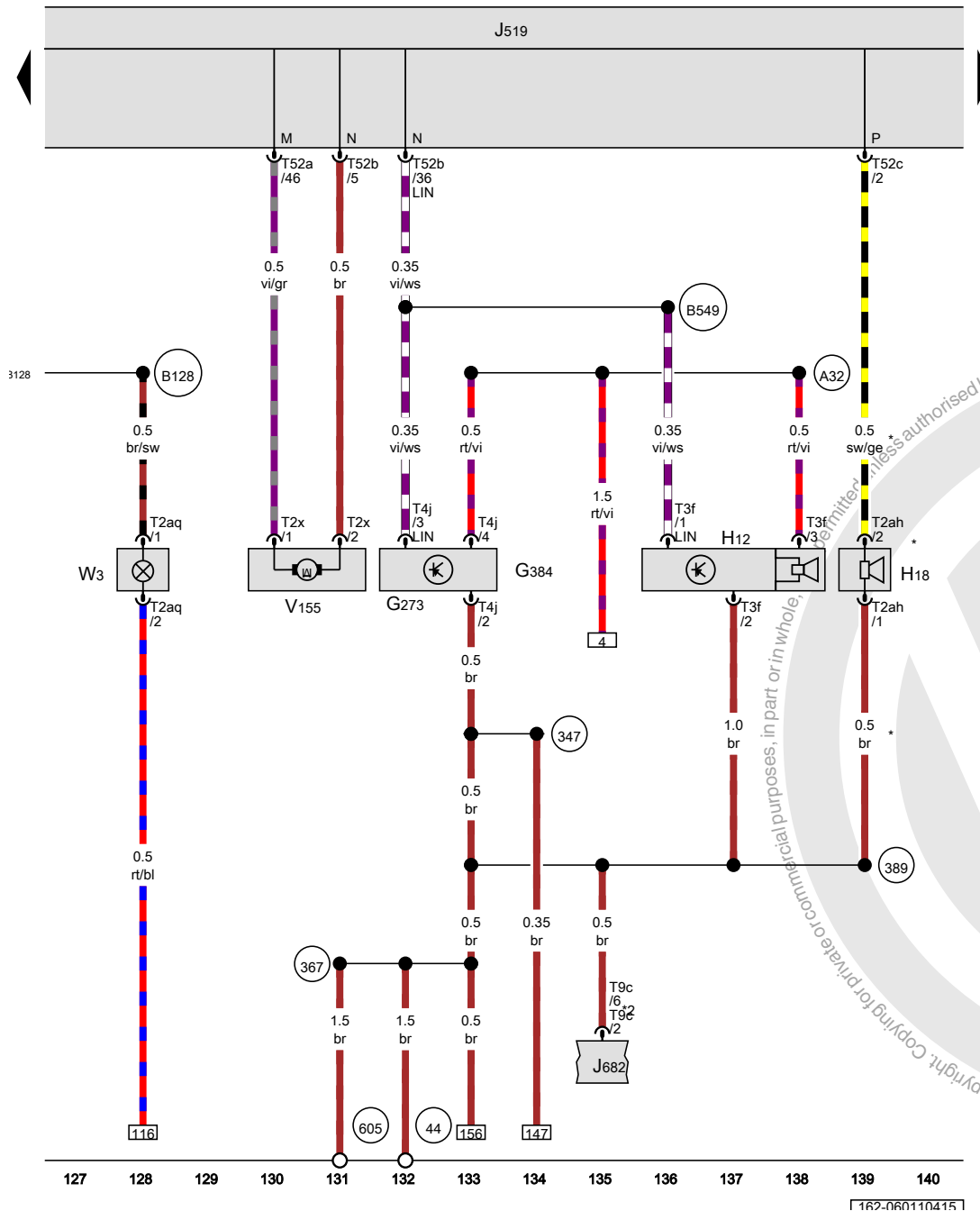
Release button in rear lid handle, Interior monitoring deactivation switch, Vehicle inclination sensor deactivation button, Luggage compartment lamp switch, Rear lid lock unit, Vehicle electrical control module system, Rear lid opening motor, Front interior lamp

- E234 Release button in rear lid handle
- E267 Interior monitoring deactivation switch
- E360 Vehicle inclination sensor deactivation button
- F5 Luggage compartment lamp switch
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- T2t Double connector
- T4br 4-pin connector
- T4u 4-pin connector
- T6b 6-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V254 Rear lid opening motor
- W1 Front interior lamp

- 86 Ground connection 1 (in rear wiring harness)
- 662 Ground connection in left rear side panel
- B128 Luggage compartment lamp connection (in interior wiring harness)
- B154 Connection TK (in interior wiring harness) 1
- B250 Positive connection (in roof wiring harness)

* Depending on equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink



Interior monitoring sensor, Vehicle inclination sensor, Alarm horn, Vehicle electrical control module system, Fuel filler door unlock motor, Luggage compartment lamp

- G273 Interior monitoring sensor
- G384 Vehicle inclination sensor
- H12 Alarm horn
- H18 Alarm system horn
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- T2ah Double connector
- T2aq Double connector
- T2x Double connector
- T3f 3-pin connector
- T4j 4-pin connector
- T9c 9-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V155 Fuel filler door unlock motor
- W3 Luggage compartment lamp

- 44 Ground connection on A-pillar, lower left
- 347 Ground connection (in roof wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- A32 Positive connection (30) (in instrument panel wiring harness)
- B128 Luggage compartment lamp connection (in interior wiring harness)
- B549 LIN bus connection 2 (in main wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

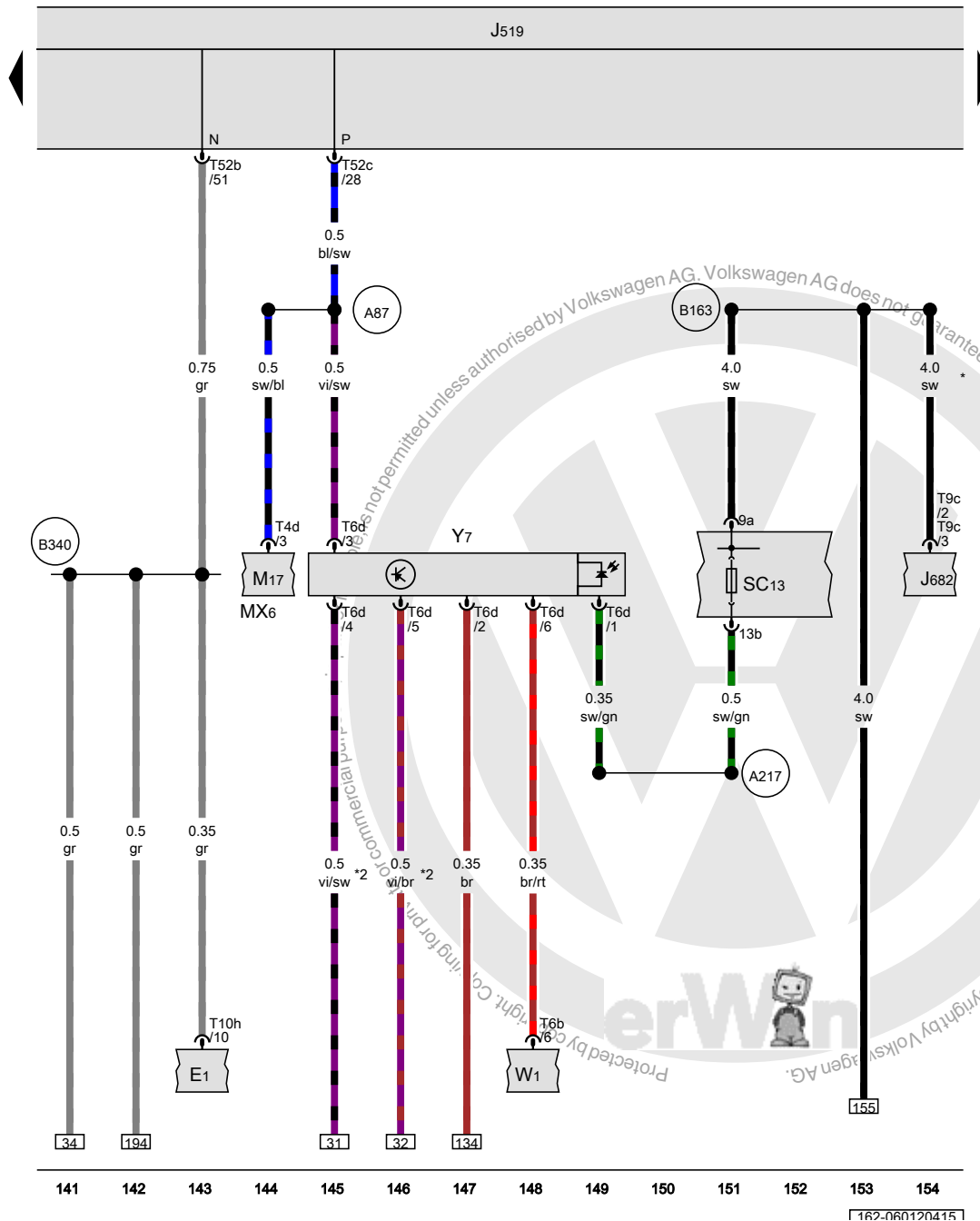
- * USA only
- *2 Running change

Vehicle electrical control module system, Automatic dimming interior rearview mirror

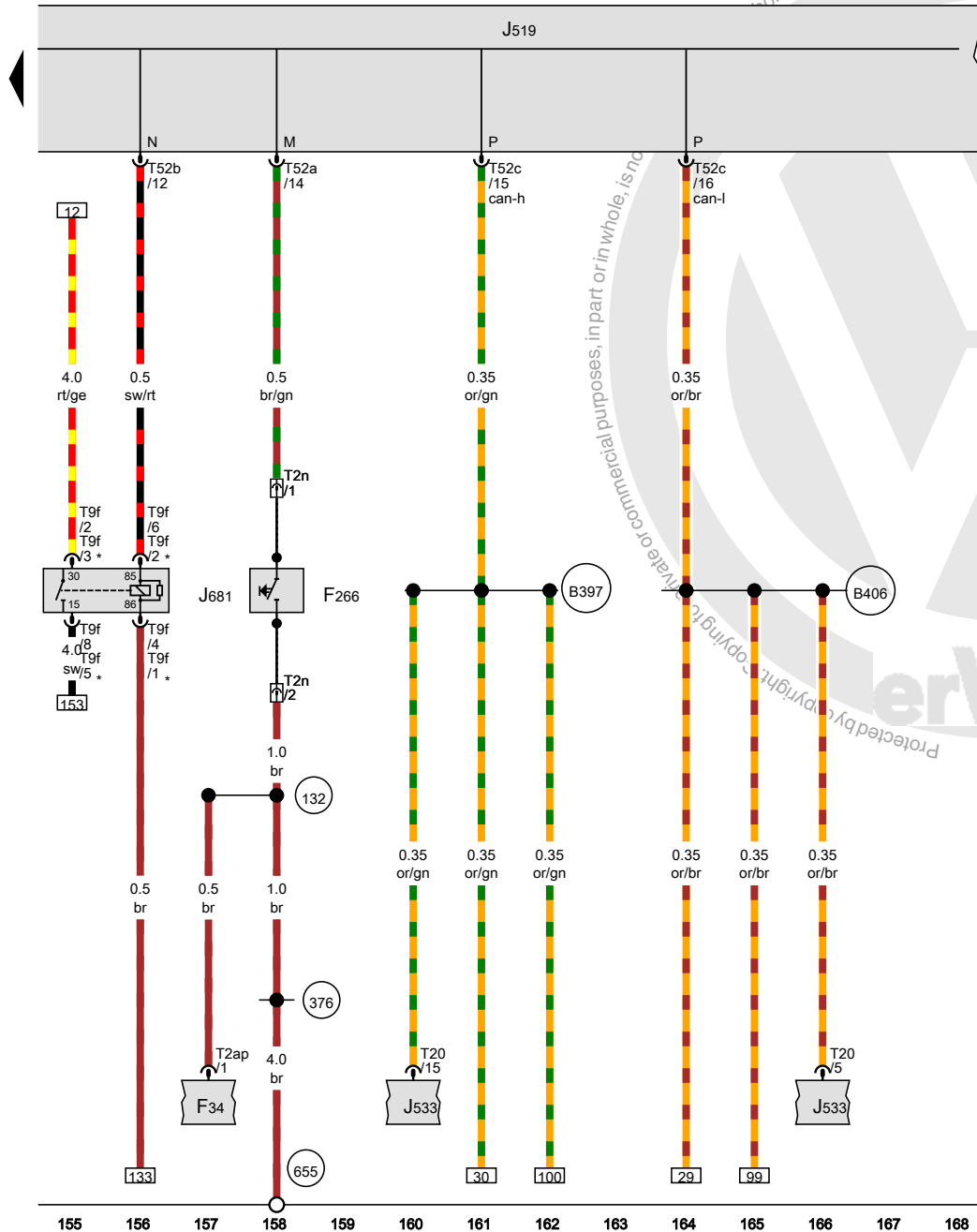
- E1 Light switch
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- MX6 Right tail lamp 2
- M17 Right back-up lamp bulb
- SC13 Fuse 13 (on fuse panel C)
- T4d 4-pin connector
- T6b 6-pin connector
- T6d 6-pin connector
- T9c 9-pin connector
- T10h 10-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W1 Front interior lamp
- Y7 Automatic dimming interior rearview mirror

- (A87) Back-up lamp connection (in instrument panel wiring harness)
- (A217) Positive connection 8 (15a) (in instrument panel wiring harness)
- (B163) Positive connection 1 (15) (in interior wiring harness)
- (B340) Connection 58d (in main wiring harness) 1
- * Running change
- *2 Omitted as a running change

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Engine hood contact switch, Vehicle electrical control module system, Terminal 15 power supply relay 2



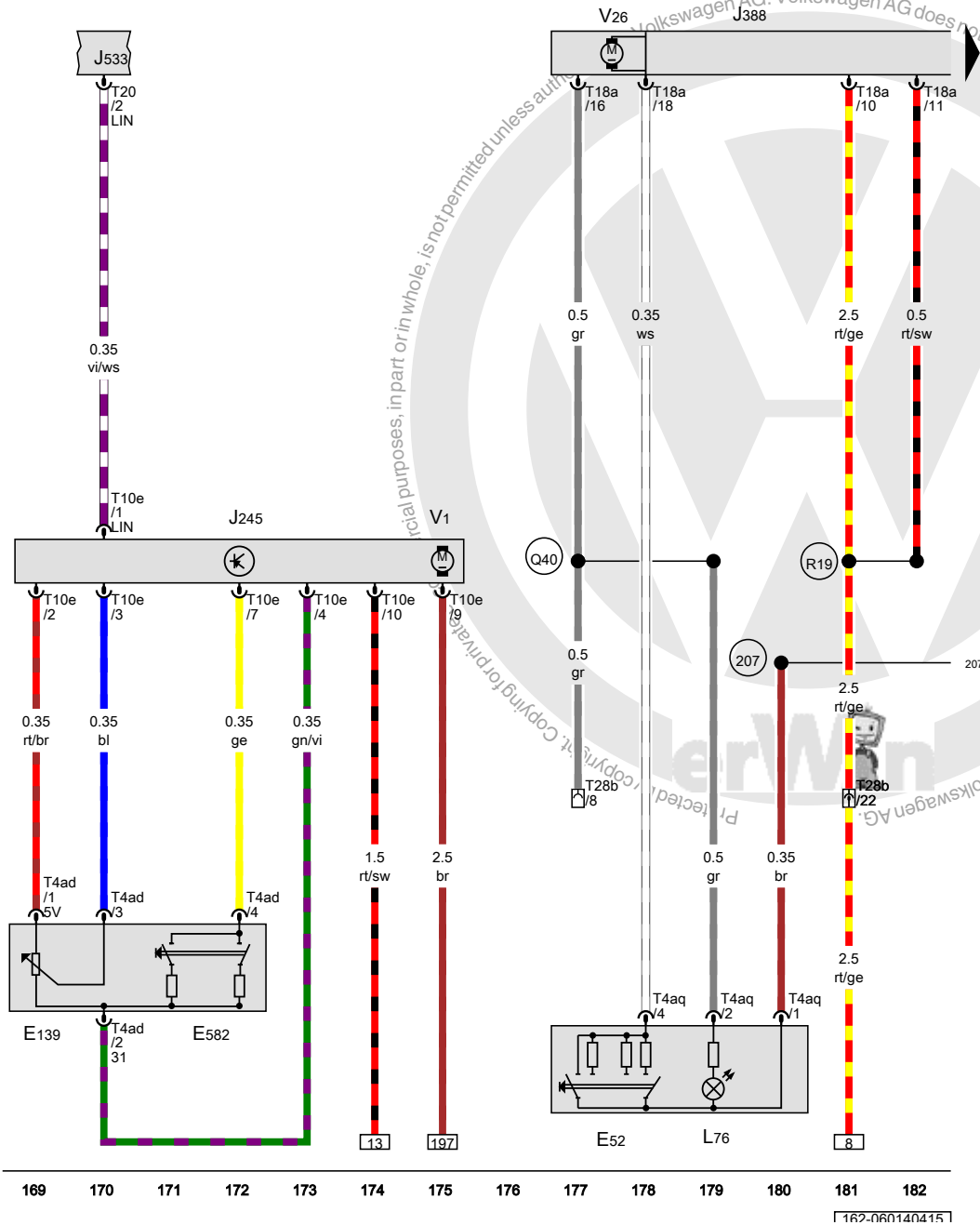
- F34 Brake fluid level warning switch
- F266 Engine hood contact switch
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- J681 Terminal 15 power supply relay 2
- T2ap Double connector
- T2n Double connector
- T9f 9-pin connector
- T20 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- 132 Ground connection 3 (in engine compartment wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- * Running change

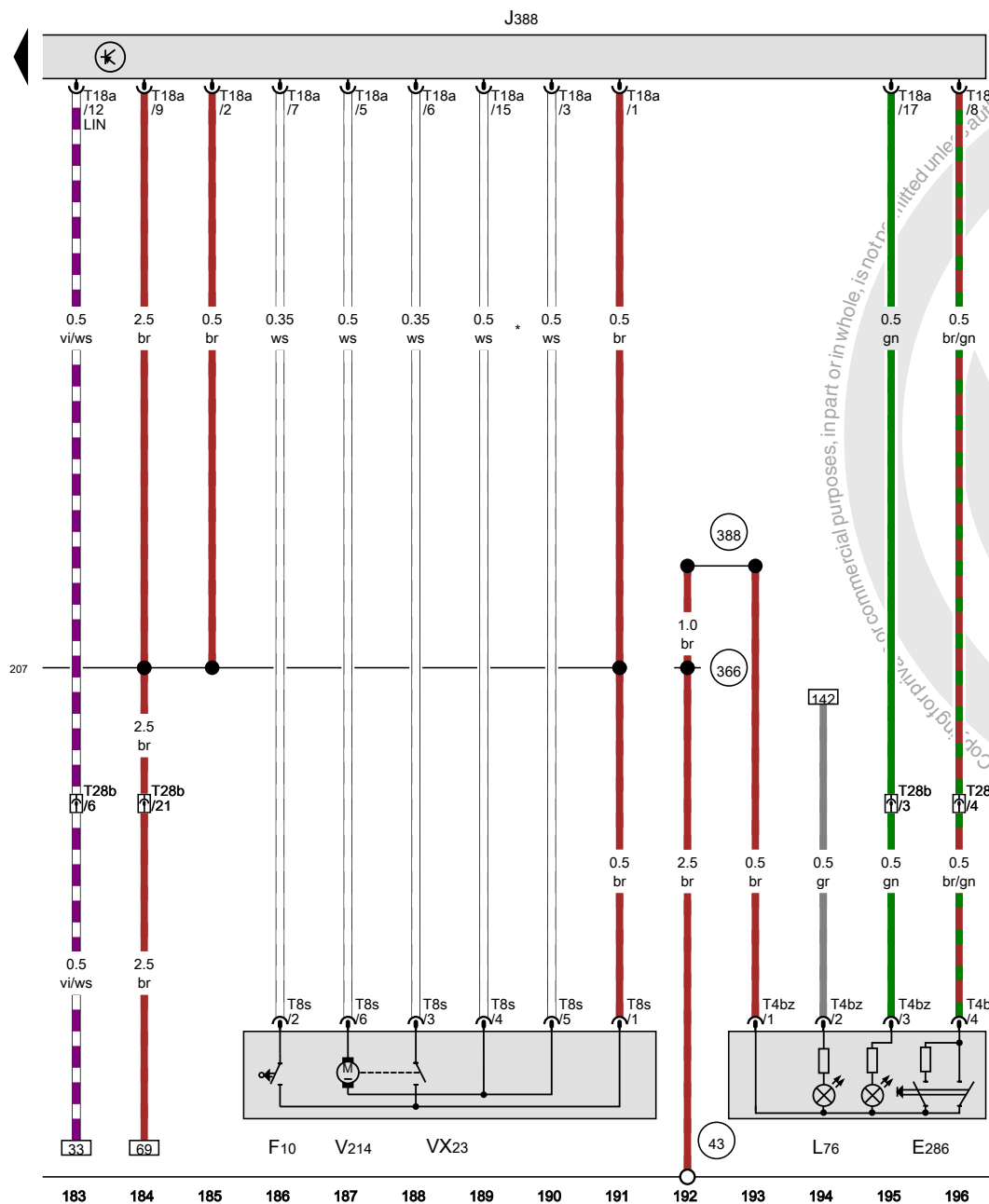
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Left rear power window switch in left rear door, Sunroof adjustment regulator, Sunroof tilt button 1, Power sunroof control module, Left rear door control module, Sunroof motor, Left rear window regulator motor

- E52 Left rear power window switch in left rear door
- E139 Sunroof adjustment regulator
- E582 Sunroof tilt button 1
- J245 Power sunroof control module
- J388 Left rear door control module
- J533 Data bus on board diagnostic interface
- L76 Push button illumination bulb
- T4ad 4-pin connector
- T4aq 4-pin connector
- T10e 10-pin connector
- T18a 18-pin connector
- T20 20-pin connector
- T28b 28-pin connector, on the left B-pillar
- V1 Sunroof motor
- V26 Left rear window regulator motor

- 207 Ground connection (in left rear door wiring harness)
- Q40 Positive connection 3 (58b) (in power window wiring harness)
- R19 Positive connection 1 (30) (in left rear door wiring harness)





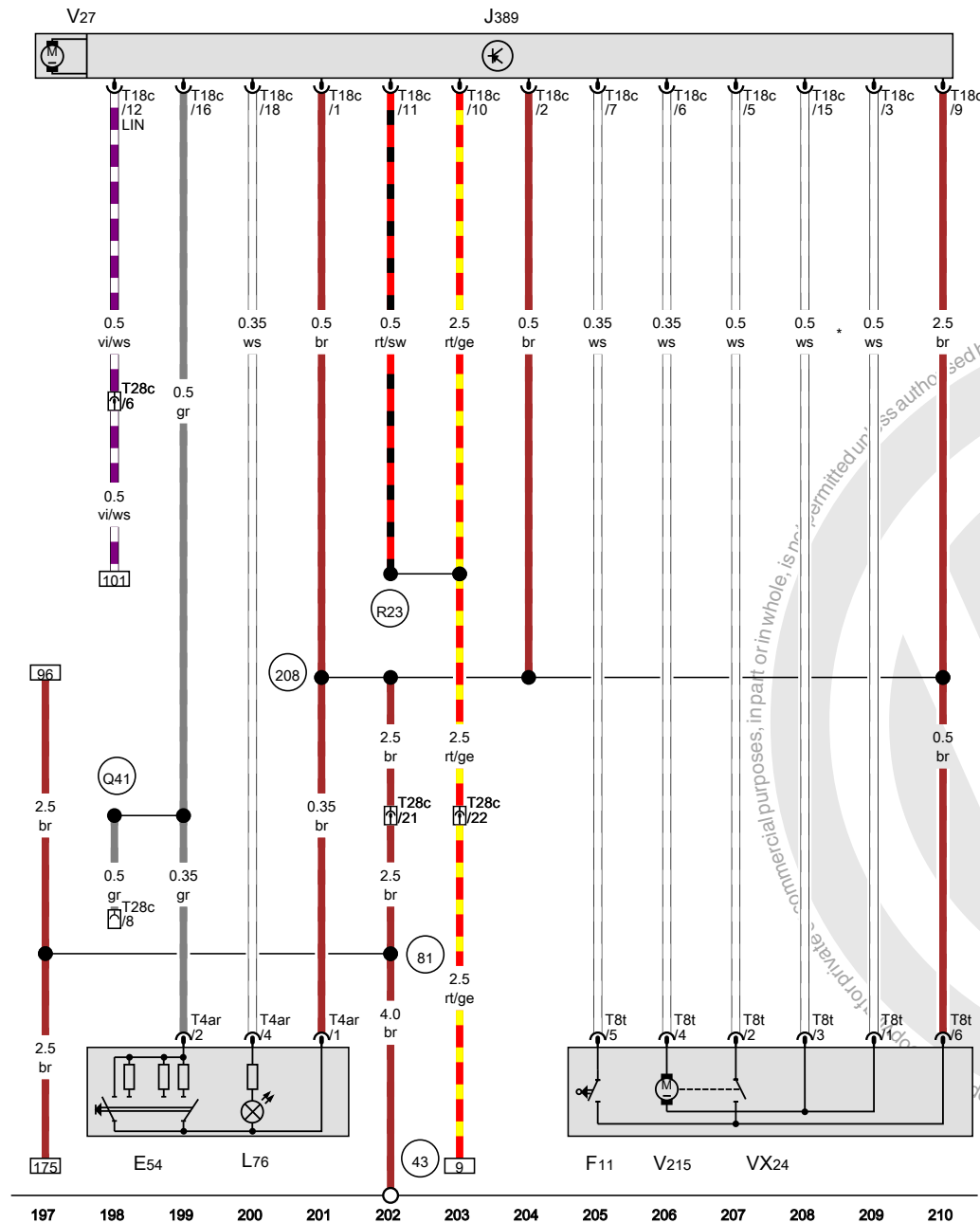
Rear center interior locking switch, Left rear door contact switch, Left rear door control module, Left rear door lock unit, Left rear central locking -lock- motor

- E286 Rear center interior locking switch
- F10 Left rear door contact switch
- J388 Left rear door control module
- L76 Push button illumination bulb
- T4bz 4-pin connector
- T8s 8-pin connector
- T18a 18-pin connector
- T28b 28-pin connector, on the left B-pillar
- VX23 Left rear door lock unit
- V214 Left rear central locking -lock- motor

- 43 Ground connection on A-pillar, lower right
- 207 Ground connection (in left rear door wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- * Not for USA

- ws = white
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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Right rear window switch in right rear door, Right rear door contact switch, Right rear door control module, Right rear door lock unit, Right rear window regulator motor, Right rear central locking -lock- motor



- E54 Right rear window switch in right rear door
- F11 Right rear door contact switch
- J389 Right rear door control module
- L76 Push button illumination bulb
- T4ar 4-pin connector
- T8t 8-pin connector
- T18c 18-pin connector
- T28c 28-pin connector, on the right B-pillar
- VX24 Right rear door lock unit
- V27 Right rear window regulator motor
- V215 Right rear central locking -lock- motor
- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 208 Ground connection (in right rear door wiring harness)
- Q41 Positive connection 4 (58b) (in power window wiring harness)
- R23 Positive connection 1 (30) (in right rear door wiring harness)
- * Not for USA

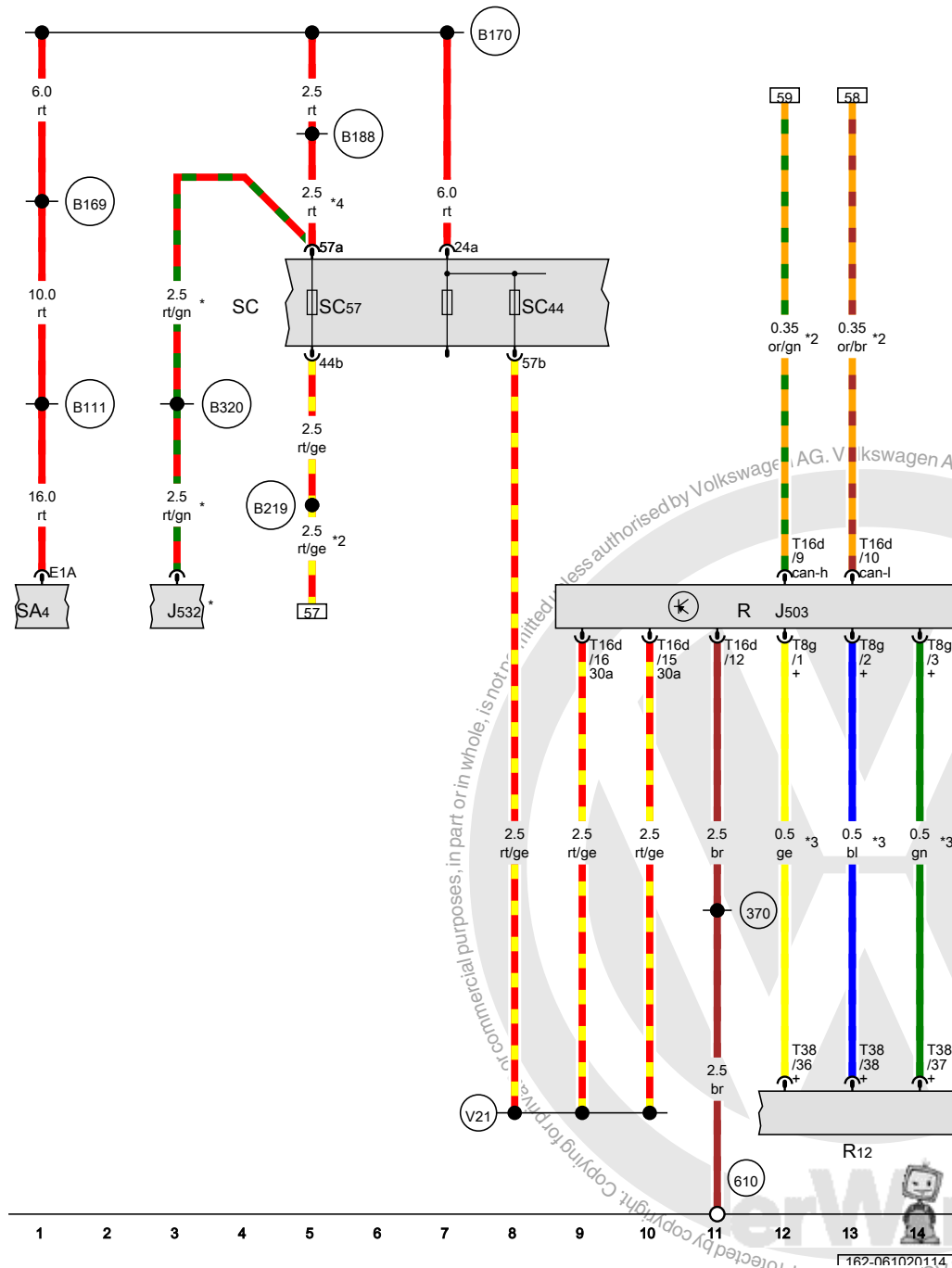
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Radio systems/navigation systems , (7T2),(7T6),(7T8),(7UB),(7UK),(7UL),(8AE),(8AX),(8DD)

from June 2011



**Radio/navigation display unit control module, Radio, Fuse 4
(on fuse panel A), Fuse panel C**

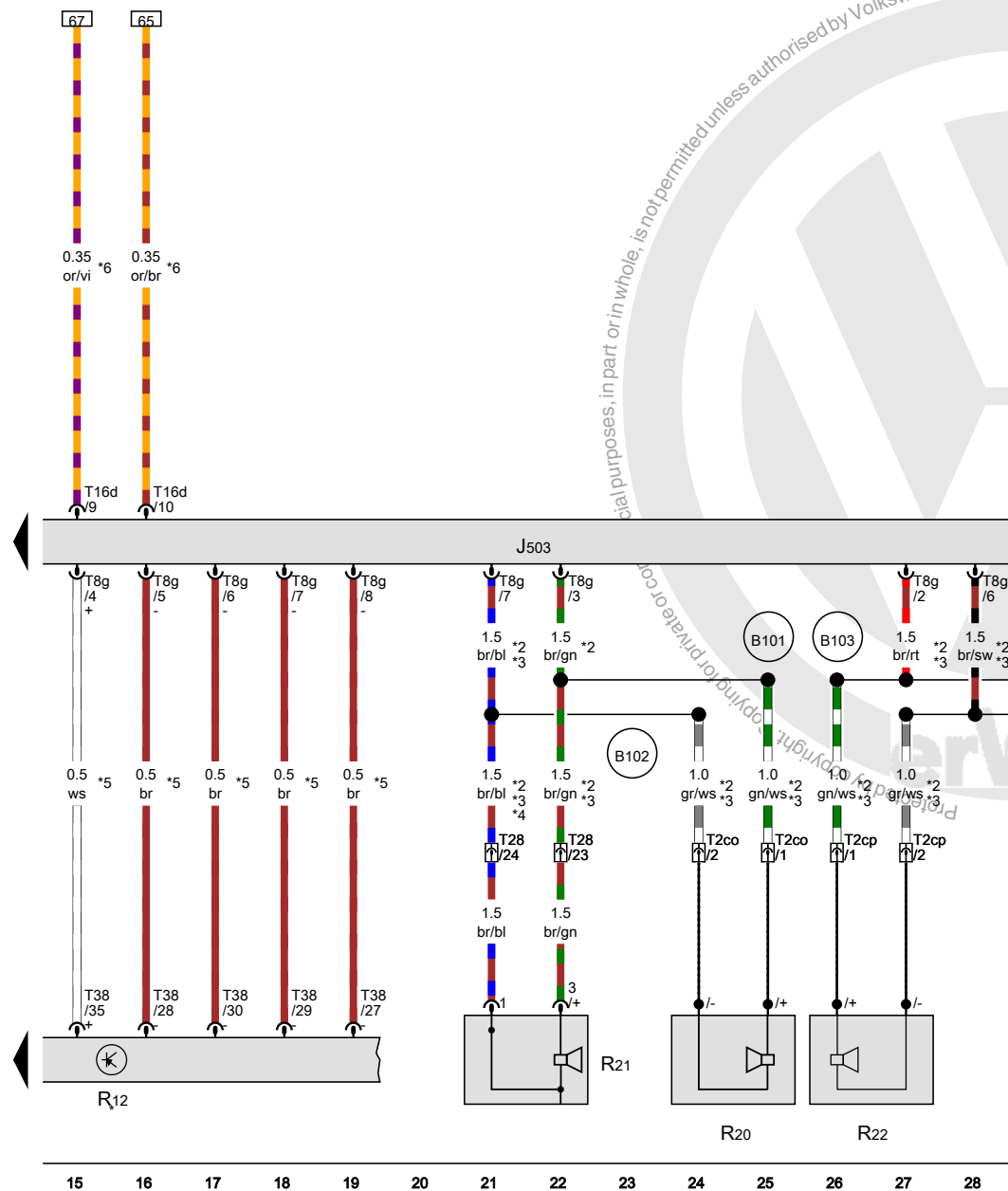


Radio/navigation display unit control module, Left front treble speaker, Left front bass speaker, Right front treble speaker

- J503 Radio/navigation display unit control module
- R12 Amplifier
- R20 Left front treble speaker
- R21 Left front bass speaker
- R22 Right front treble speaker
- T2co Double connector, Interface for front speaker, in the instrument panel, left
- T2cp Double connector, Interface for front speaker, in the instrument panel, right
- T8g 8-pin connector
- T16d 16-pin connector
- T28 28-pin connector
- T38 38-pin connector

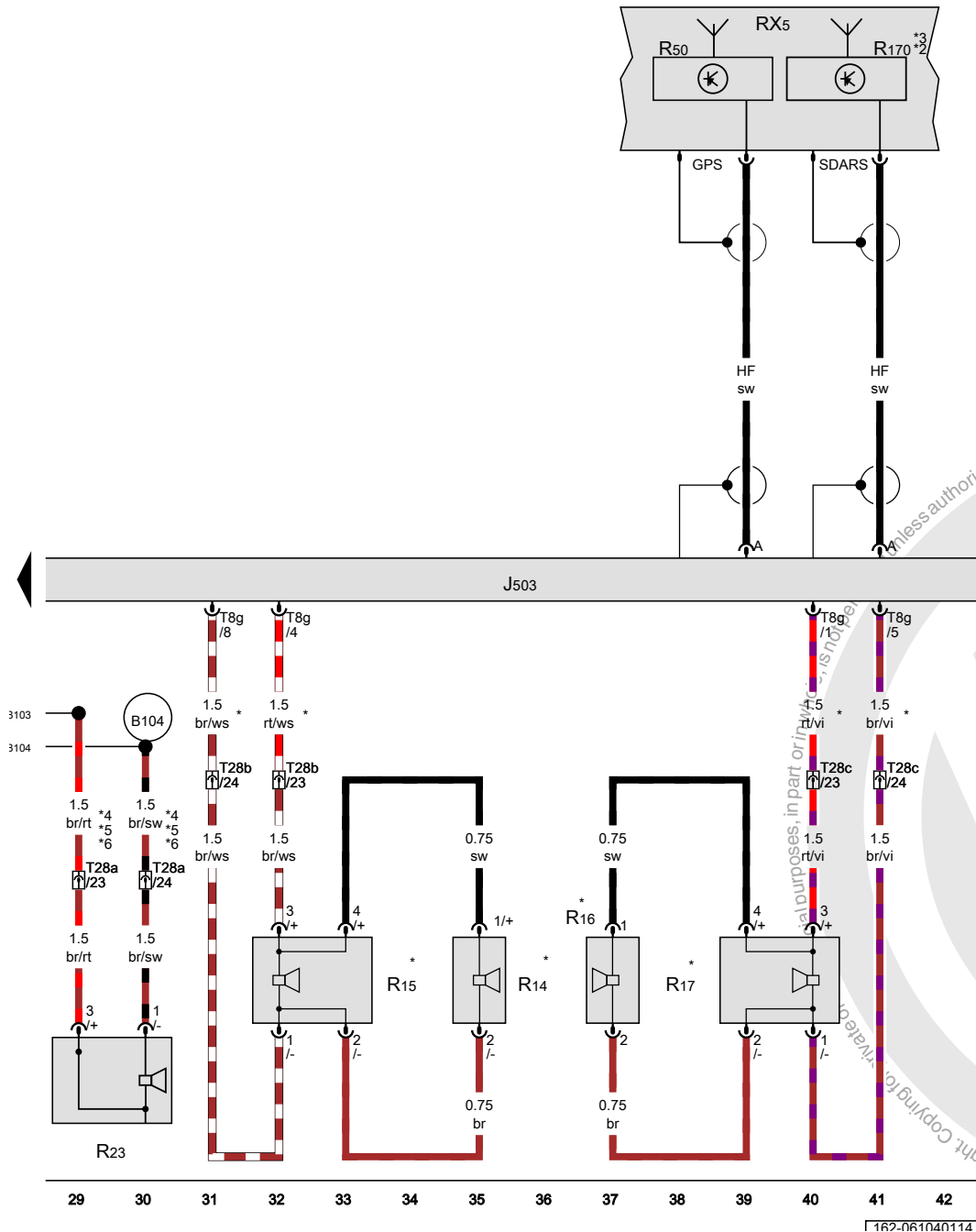
- B101 Left front speaker positive connection (in main wiring harness)
- B102 Left front speaker negative connection (in main wiring harness)
- B103 Right front speaker positive connection (in main wiring harness)
- B104 Right front speaker negative connection (in main wiring harness)

- * Refer to applicable sound system wiring diagram
- *2 Only for vehicles without sound system
- *3 The color of the wires depends on vehicle equipment
- *4 Diameter depends on equipment
- *5 Only for vehicles with sound system
- *6 only for vehicles with High equipment (AW1)



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

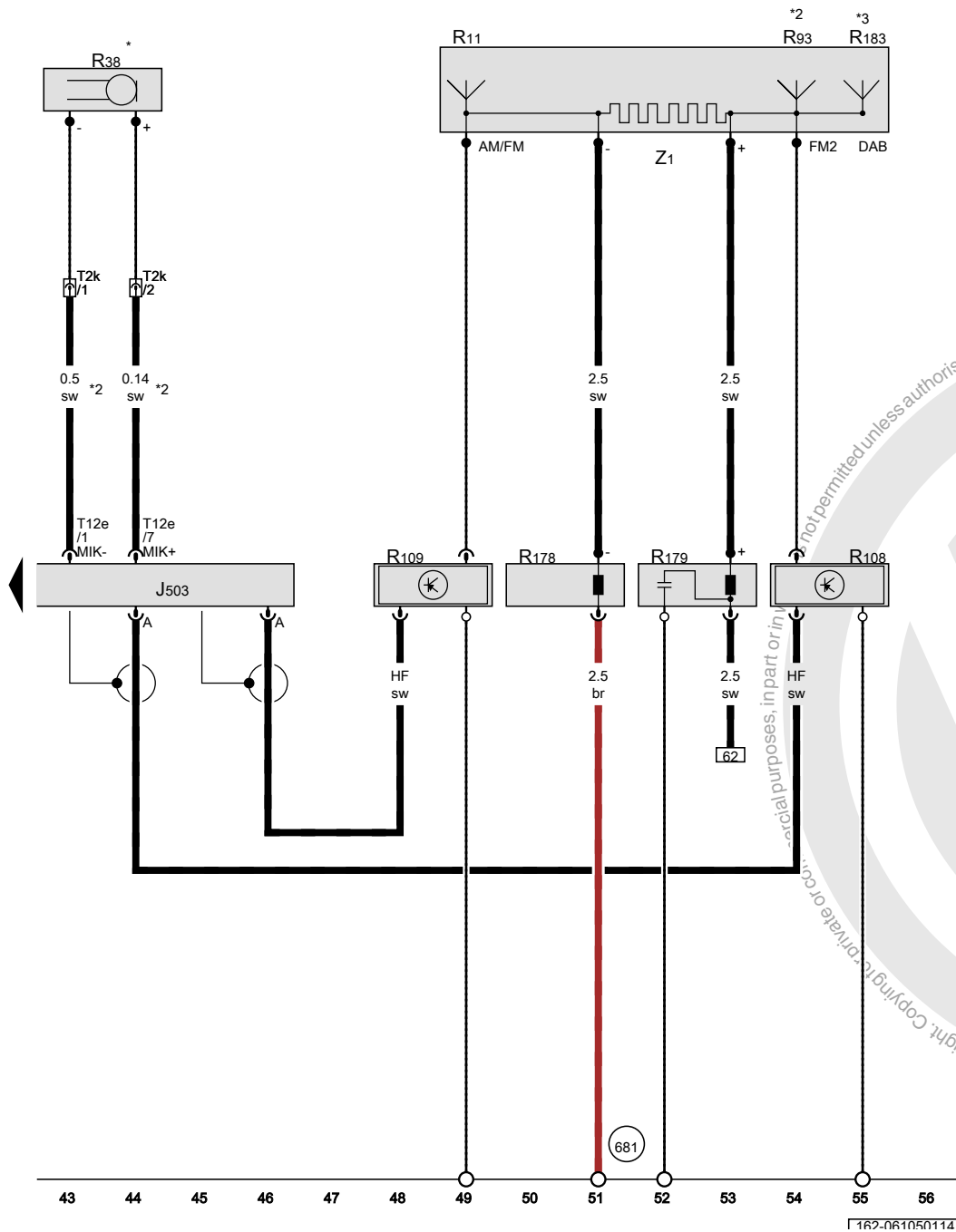
162-061030114



Radio/navigation display unit control module, Roof antenna, Left rear treble speaker, Left rear bass speaker, Right rear treble speaker, Right rear bass speaker, Right front bass speaker, GPS antenna, Satellite antenna

- J503 Radio/navigation display unit control module
- RX5 Roof antenna
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- R23 Right front bass speaker
- R50 GPS antenna
- R170 Satellite antenna
- T8g 8-pin connector
- T28a 28-pin connector
- T28b 28-pin connector
- T28c 28-pin connector
- B103 Right front speaker positive connection (in main wiring harness)
- B104 Right front speaker negative connection (in main wiring harness)
- * Depending on equipment
- *2 USA only
- *3 Only for vehicles with satellite radio
- *4 Only for vehicles without sound system
- *5 The color of the wires depends on vehicle equipment
- *6 Diameter depends on equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
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or = orange
rs = pink



Radio/navigation display unit control module, Antenna, Radio antenna 2, Left antenna module, Right antenna module, Digital radio antenna, Rear window defogger

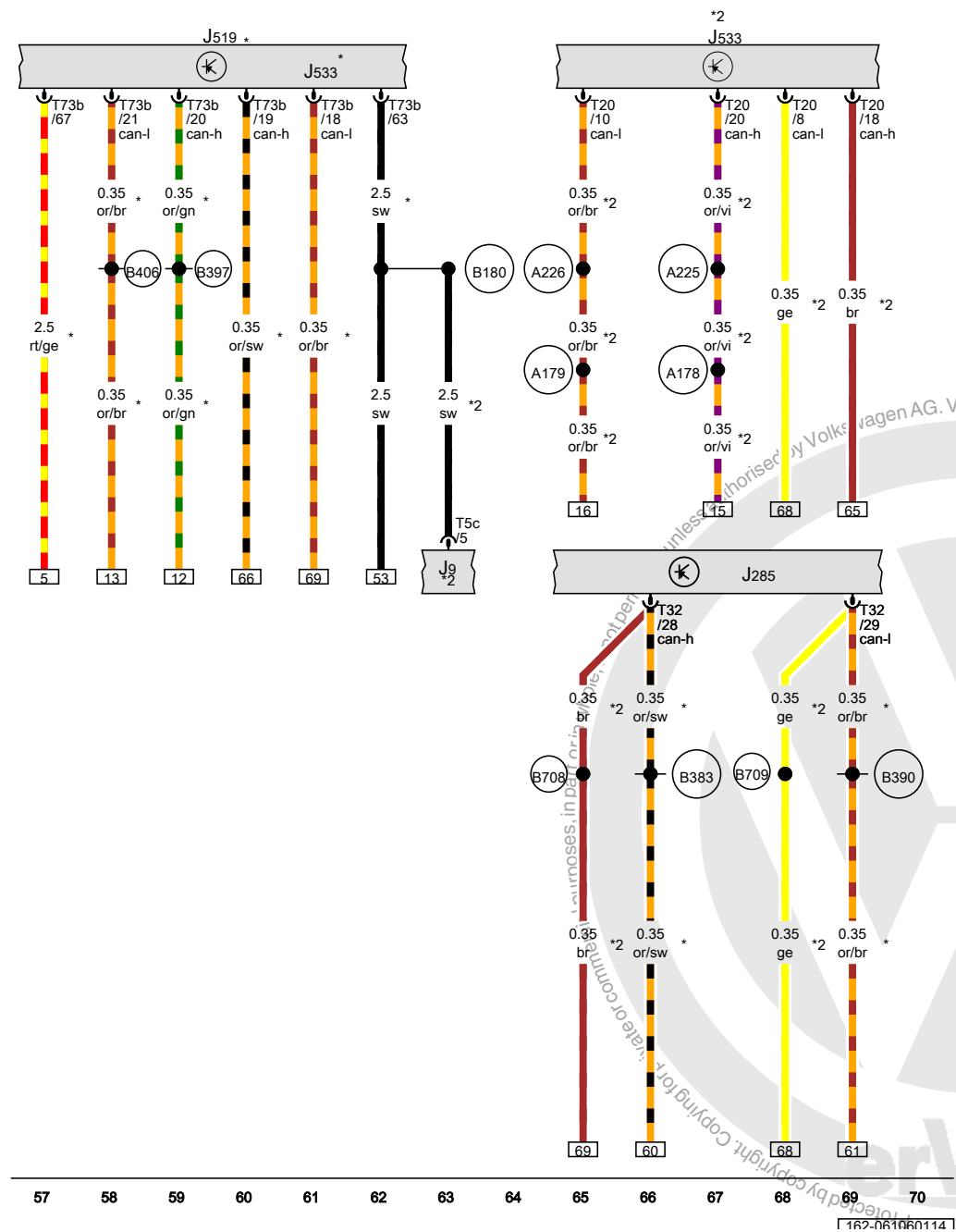
- J503 Radio/navigation display unit control module
- R11 Antenna
- R38 Telephone microphone
- R93 Radio antenna 2
- R108 Left antenna module
- R109 Right antenna module
- R178 FM frequency filter in negative wire
- R179 FM frequency filter in positive wire
- R183 Digital radio antenna
- T2k Double connector
- T12e 12-pin connector
- Z1 Rear window defogger

681 Ground connection 1 in right rear side panel

- * Refer to applicable telephone systems wiring diagram
- *2 Depending on equipment
- *3 Only for vehicles with a digital radio

- ws = white
- ro = black
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Instrument cluster control module, Vehicle electrical system control module, Data bus on board diagnostic interface



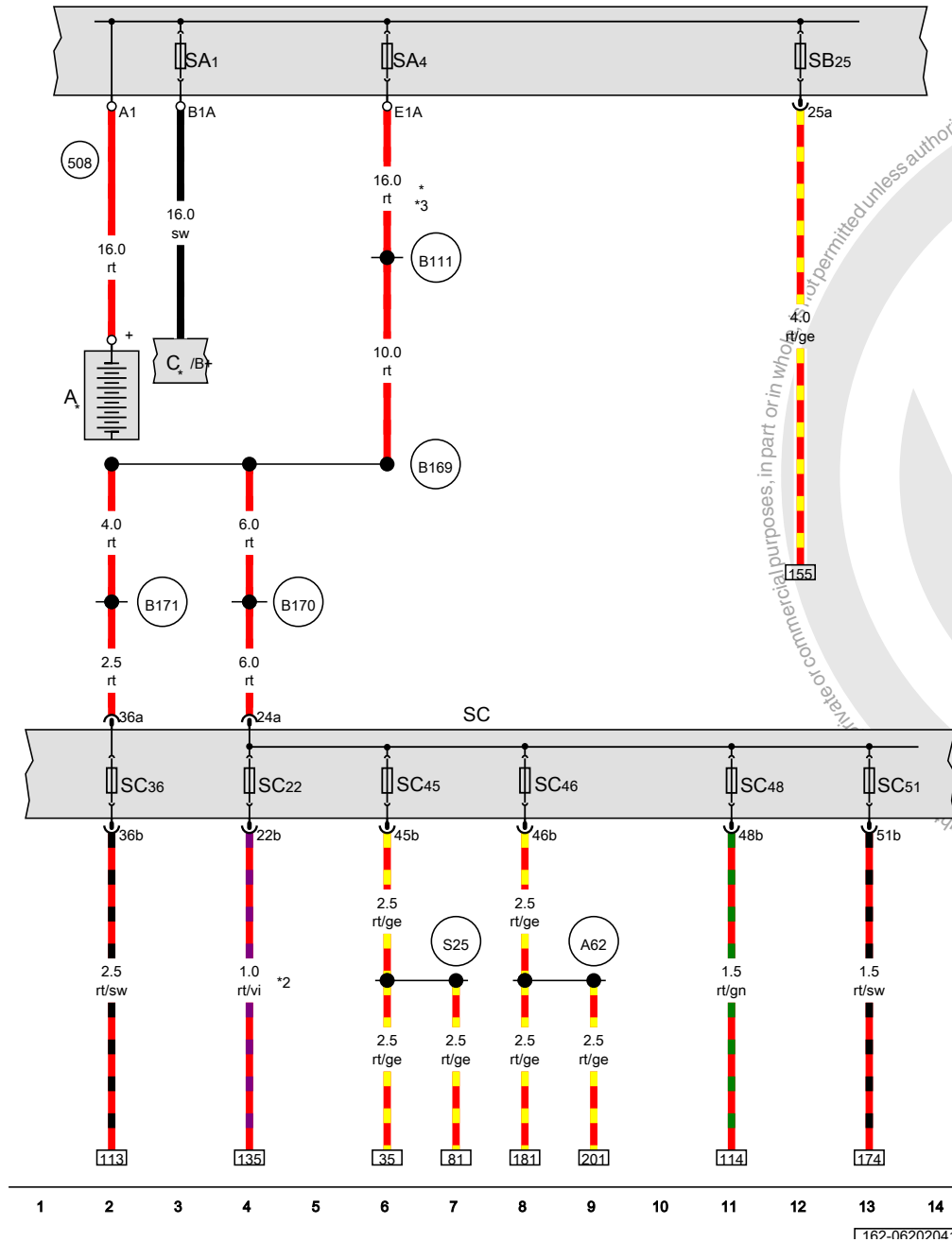
- J9 Rear window defogger relay
- J285 Instrument cluster control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- T5c 5-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T73b 73-pin connector
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B180 Rear window defogger connection (in interior wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B708 Instrument cluster CAN bus high connection 1 (in main wiring harness)
- B709 Instrument cluster CAN bus low connection 1 (in main wiring harness)
- * only for vehicles with Low equipment (AW0)
- *2 only for vehicles with High equipment (AW1)

Convenience system , (AW1)

from June 2011



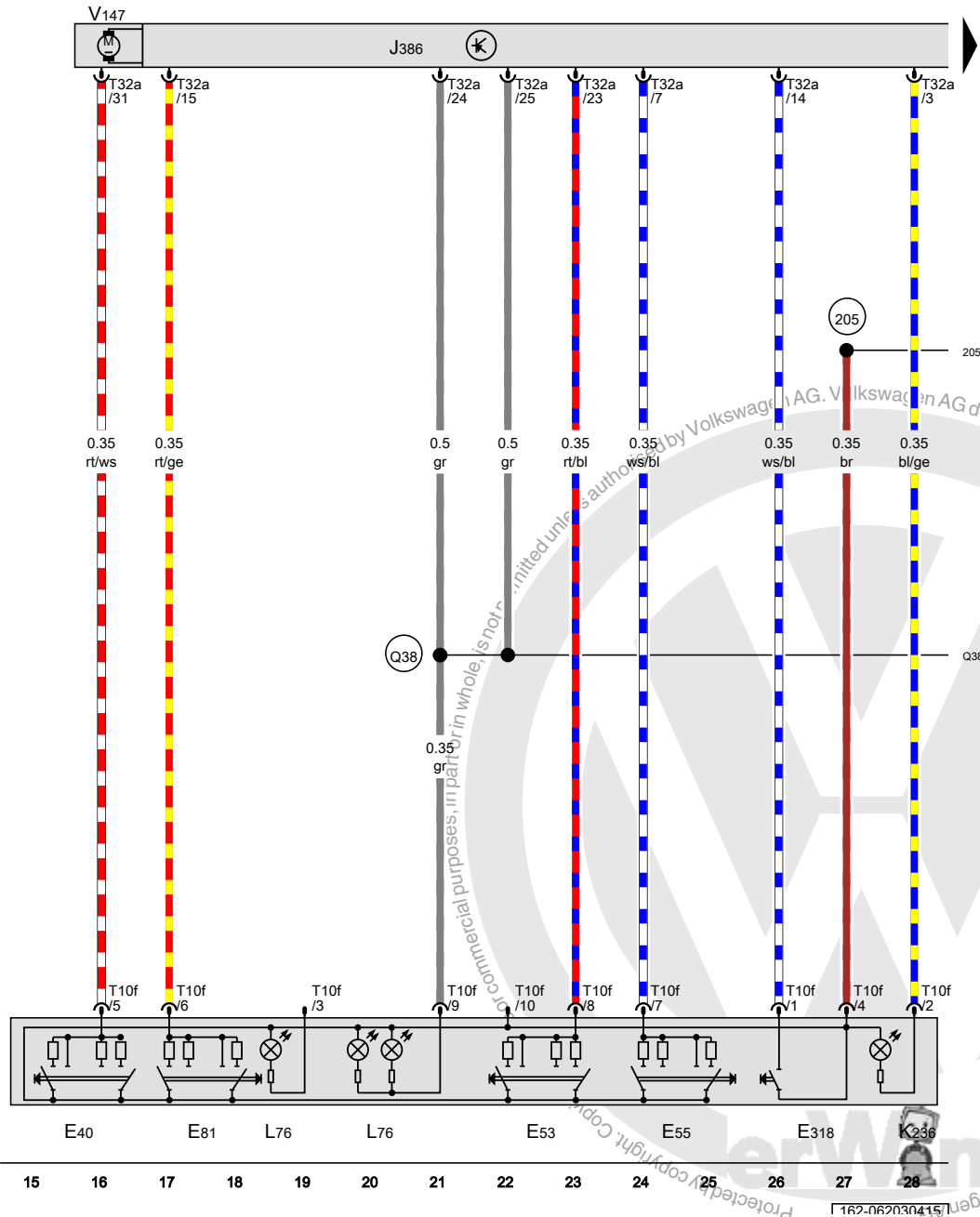
**Battery, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A),
Fuse 25 (on fuse panel B), Fuse panel C**



Left front window regulator switch, Left rear window regulator switch in driver door, Right rear window regulator switch in driver door, Right front power window switch in driver door, Child safety lock button, Driver door control module

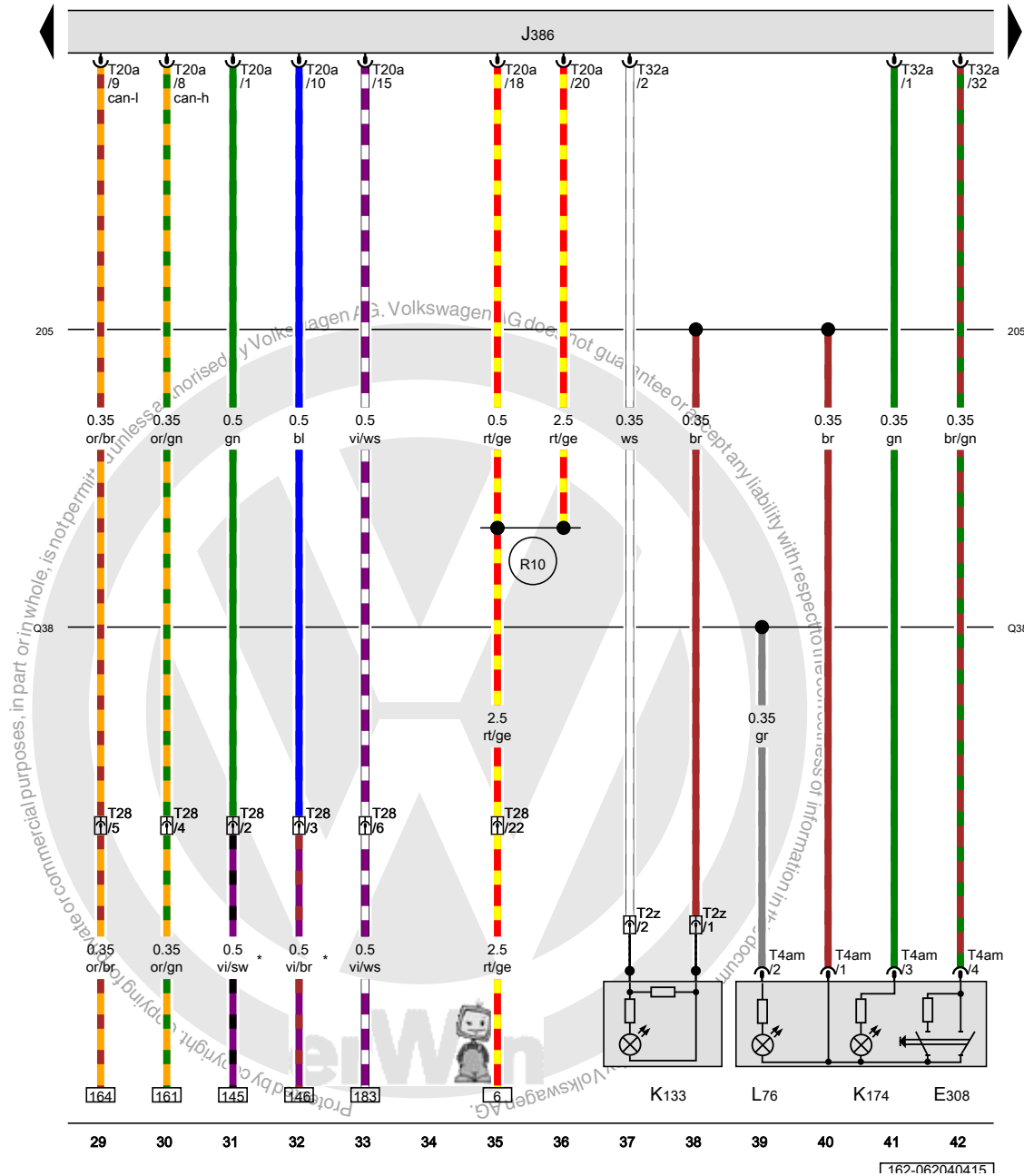
- E40 Left front window regulator switch
- E53 Left rear window regulator switch in driver door
- E55 Right rear window regulator switch in driver door
- E81 Right front power window switch in driver door
- E318 Child safety lock button
- J386 Driver door control module
- K236 Child safety lock -activated- indicator lamp
- L76 Push button illumination bulb
- T10f 10-pin connector
- T32a 32-pin connector
- V147 Driver window regulator motor

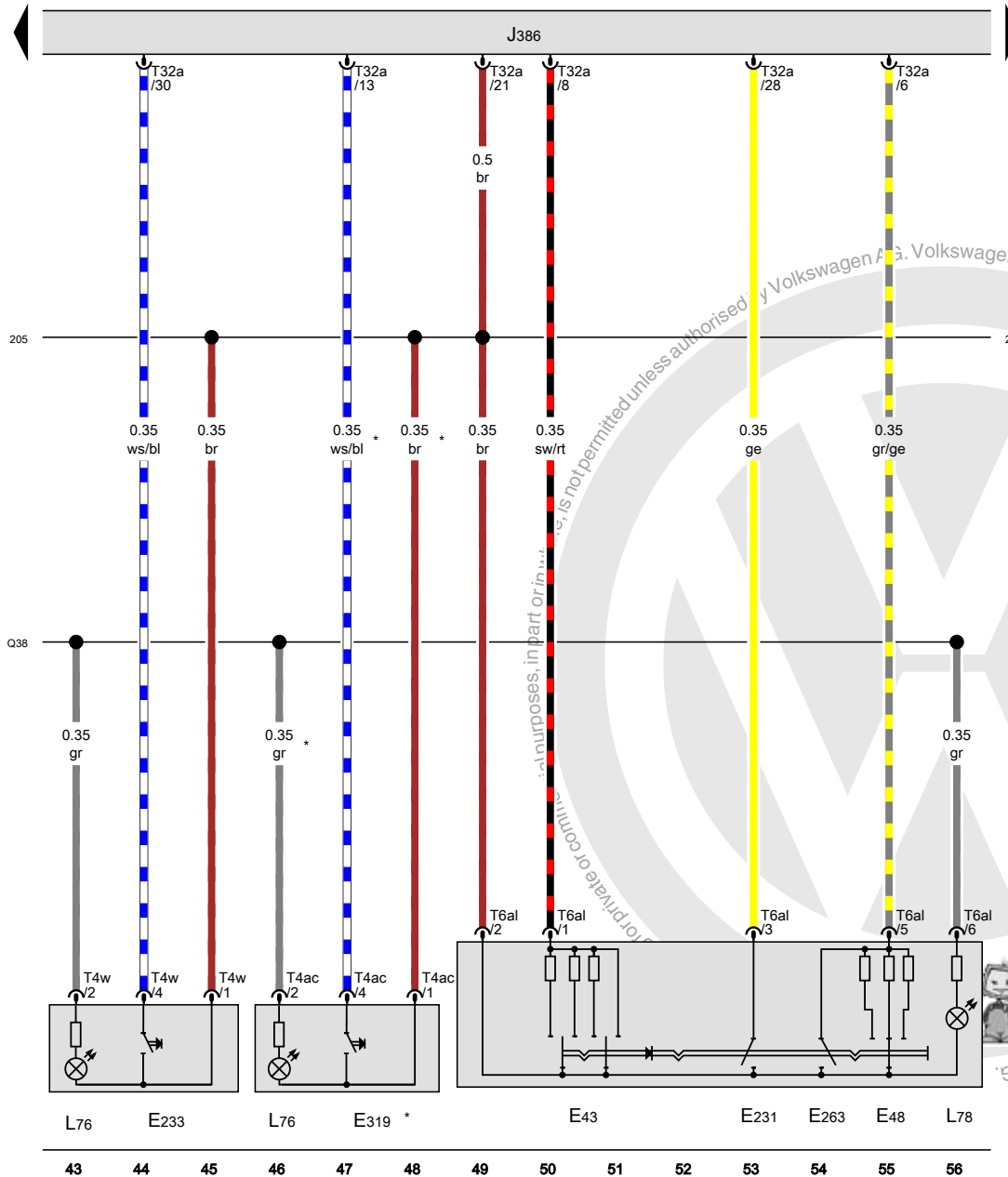
- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Driver interior locking button, Driver door control module, Central locking -SAFE- indicator lamp





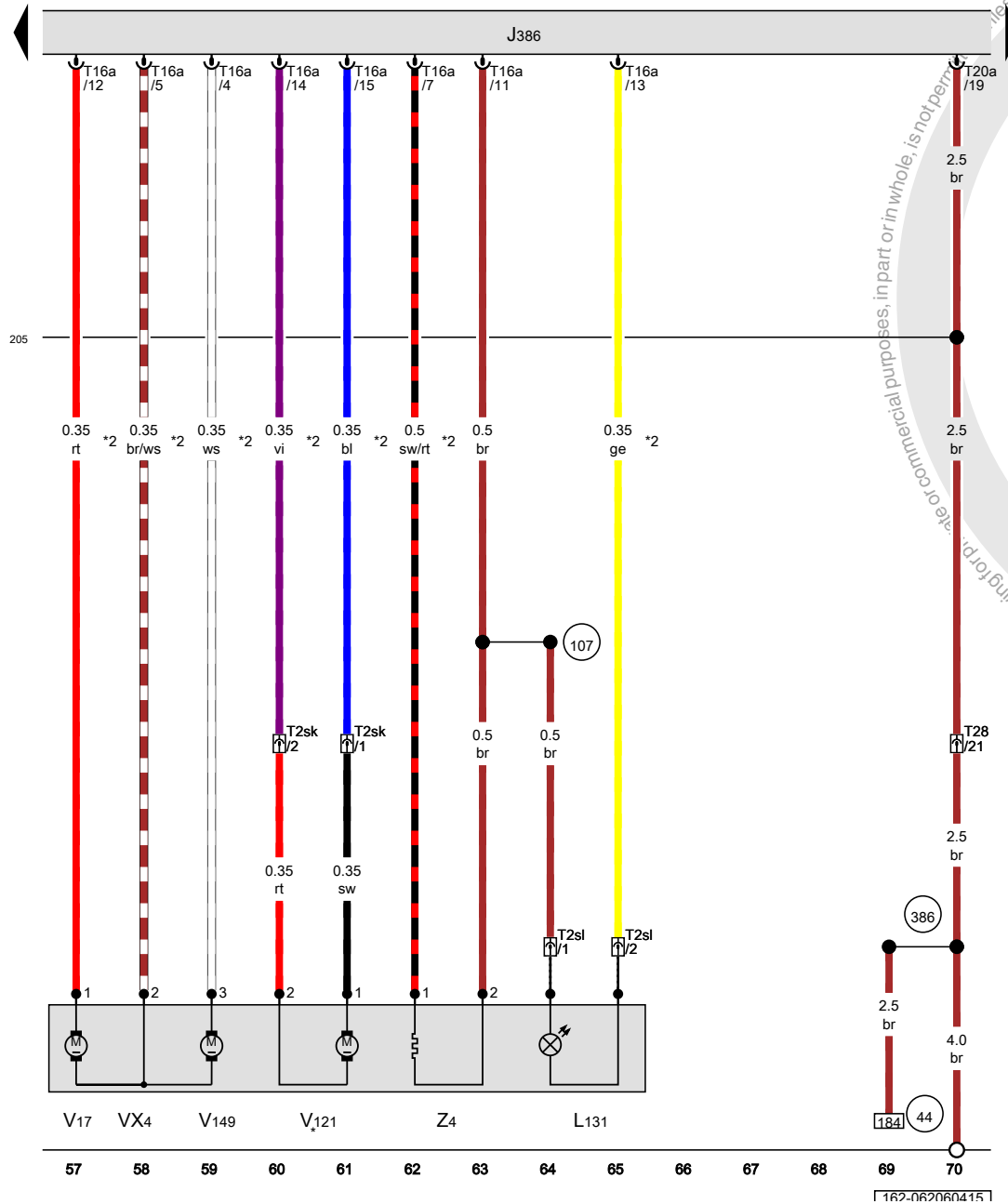
Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Rear lid remote release button, Mirror folding switch, Fuel filler door release button, Driver door control module, Mirror adjustment switch illumination bulb

- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E231 Exterior rearview mirror heating switch
- E233 Rear lid remote release button
- E263 Mirror folding switch
- E319 Fuel filler door release button
- J386 Driver door control module
- L76 Push button illumination bulb
- L78 Mirror adjustment switch illumination bulb
- T4ac 4-pin connector
- T4w 4-pin connector
- T6al 6-pin connector
- T32a 32-pin connector

- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- * USA only

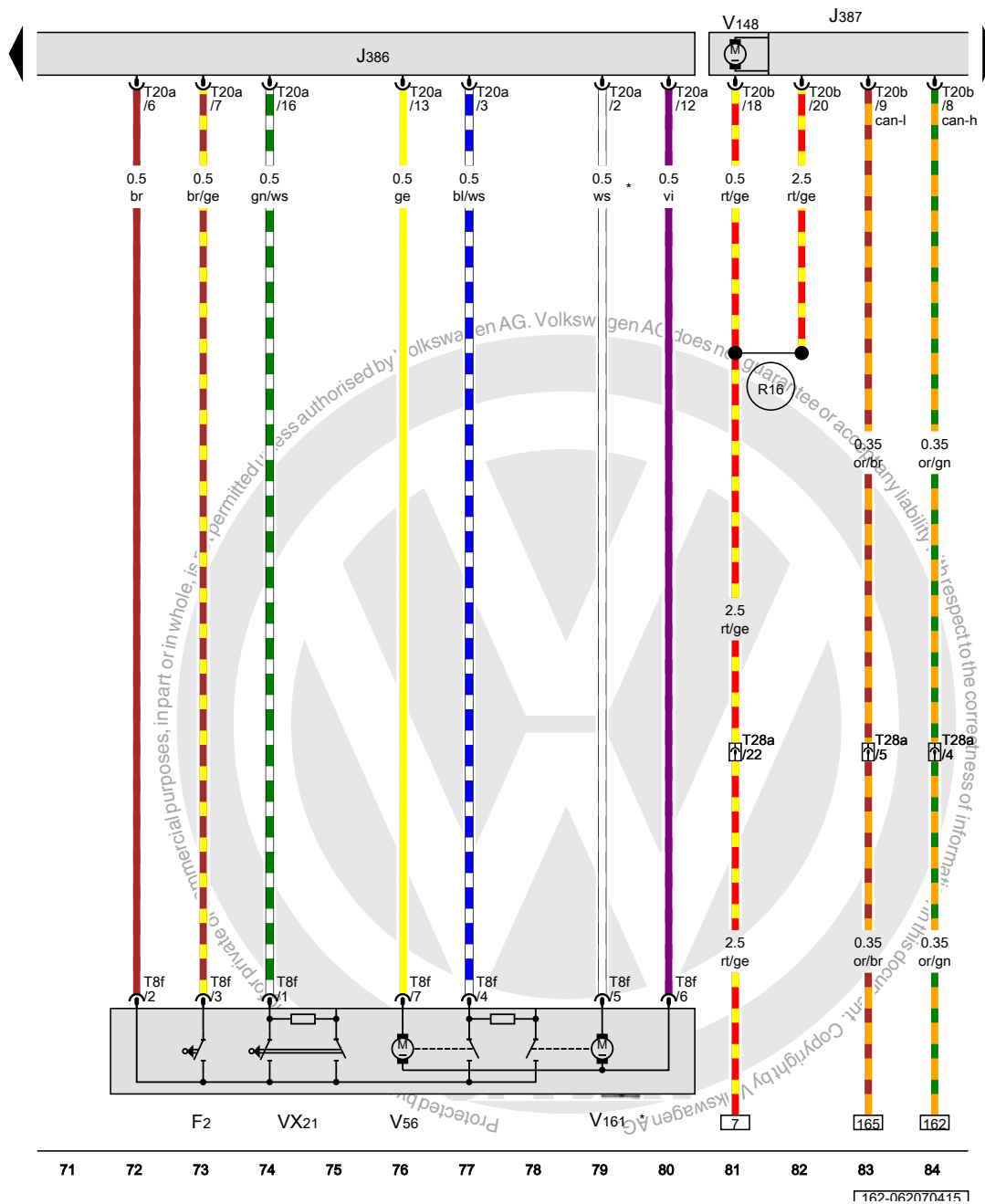
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
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- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-062050415



Driver door control module, Driver exterior rearview mirror, Driver exterior rearview mirror folding motor, Driver mirror adjustment motor

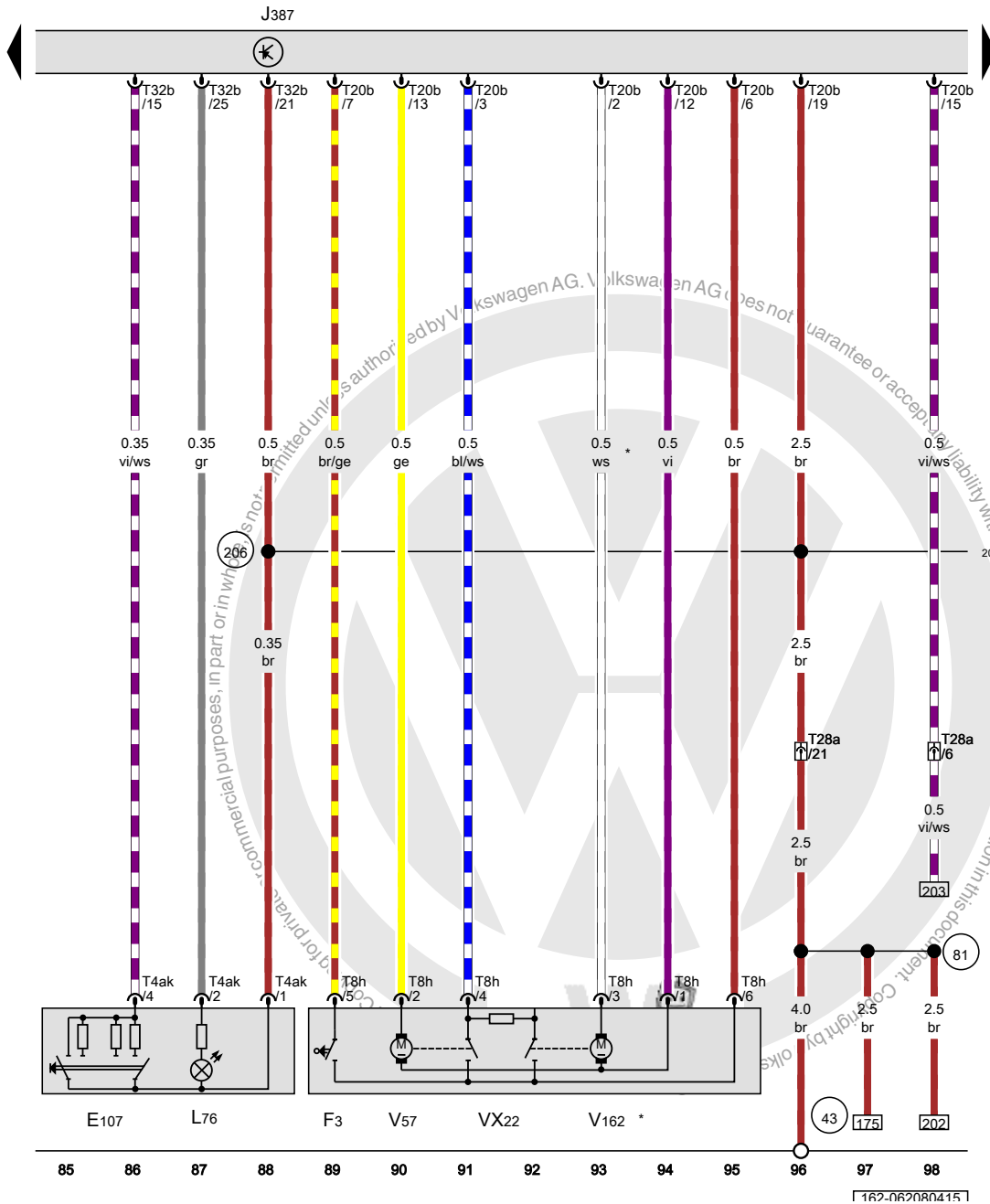
- J386 Driver door control module
- L131 Driver exterior rearview mirror turn signal bulb
- T2sk Double connector
- T2sl Double connector
- T16a 16-pin connector
- T20a 20-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- VX4 Driver exterior rearview mirror
- V17 Driver mirror adjustment motor 2
- V121 Driver exterior rearview mirror folding motor
- V149 Driver mirror adjustment motor
- Z4 Heated driver exterior rearview mirror
- 44 Ground connection on A-pillar, lower left
- 107 Ground connection (in exterior mirror wiring harness)
- 205 Ground connection (in driver door wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- * Depending on equipment
- *2 The color of the wires depends on vehicle equipment



Driver door contact switch, Driver door control module, Front passenger door control module, Driver door lock unit, Driver door central locking system motor, Front passenger window regulator motor

- F2 Driver door contact switch
- J386 Driver door control module
- J387 Front passenger door control module
- T8f 8-pin connector
- T20a 20-pin connector
- T20b 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- VX21 Driver door lock unit
- V56 Driver door central locking system motor
- V148 Front passenger window regulator motor
- V161 Driver door central locking -SAFE- motor
- R16 Positive connection 1 (30) (in front passenger door wiring harness)
- * Not for USA

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

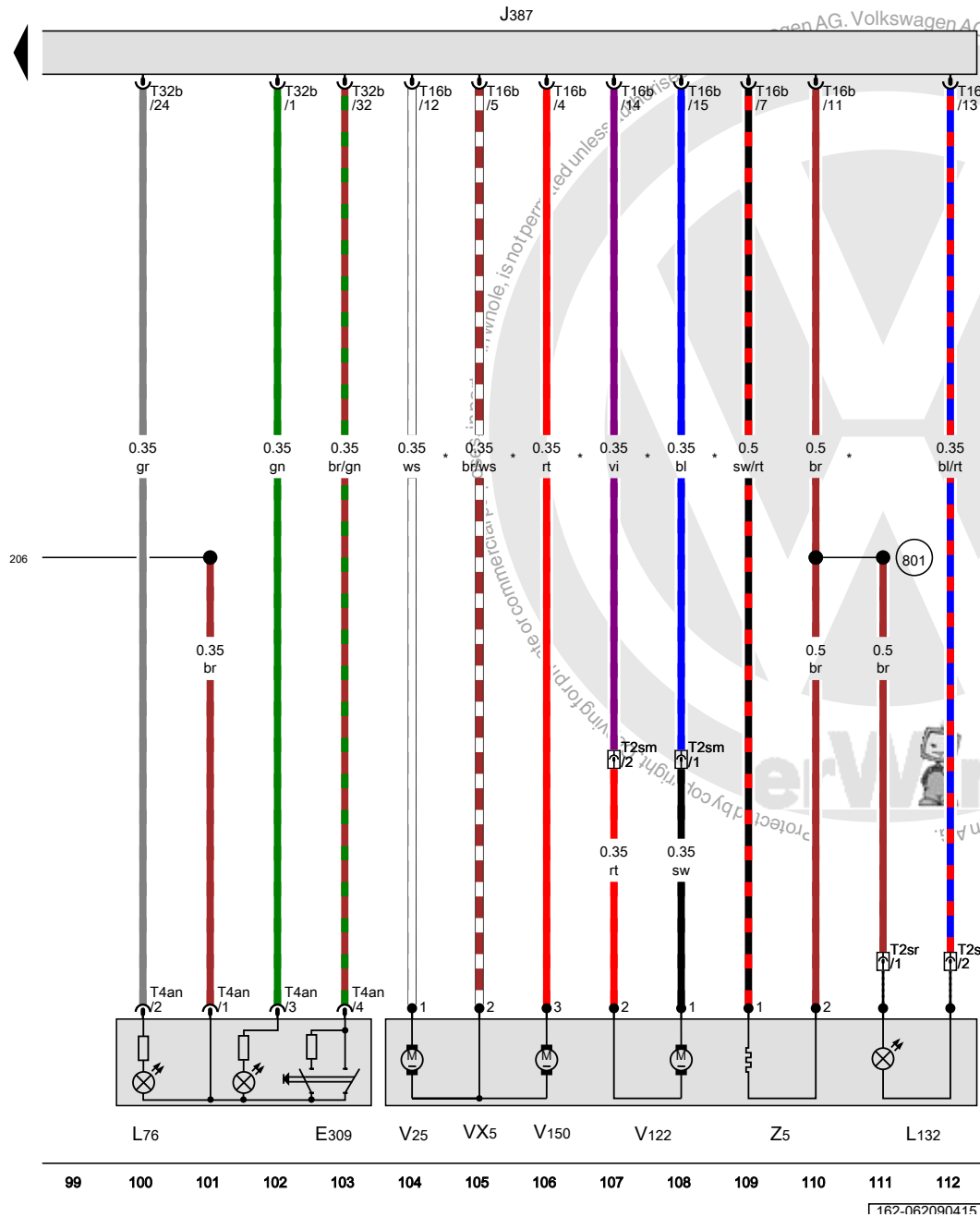


Front passenger door window regulator switch, Front passenger door contact switch, Front passenger door control module, Front passenger door lock unit, Front passenger door central locking system motor

- E107 Front passenger door window regulator switch
- F3 Front passenger door contact switch
- J387 Front passenger door control module
- L76 Push button illumination bulb
- T4ak 4-pin connector
- T8h 8-pin connector
- T20b 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T32b 32-pin connector
- VX22 Front passenger door lock unit
- V57 Front passenger door central locking system motor
- V162 Front passenger central locking -SAFE- motor

- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- * Not for USA

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- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



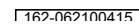
Front passenger interior locking button, Front passenger door control module, Front passenger exterior rearview mirror, Front passenger side mirror adjustment motor 2, Front passenger exterior rearview mirror folding motor, Front passenger mirror adjustment motor

- E309 Front passenger interior locking button
- J387 Front passenger door control module
- L76 Push button illumination bulb
- L132 Front passenger exterior rearview mirror turn signal bulb
- T2sm Double connector
- T2sr Double connector
- T4an 4-pin connector
- T16b 16-pin connector
- T32b 32-pin connector
- VX5 Front passenger exterior rearview mirror
- V25 Front passenger side mirror adjustment motor 2
- V122 Front passenger exterior rearview mirror folding motor
- V150 Front passenger mirror adjustment motor
- Z5 Heated front passenger exterior rearview mirror

- 206 Ground connection (in front passenger door wiring harness)
- 801 Ground connection 2 (in exterior rearview mirror wiring harness)

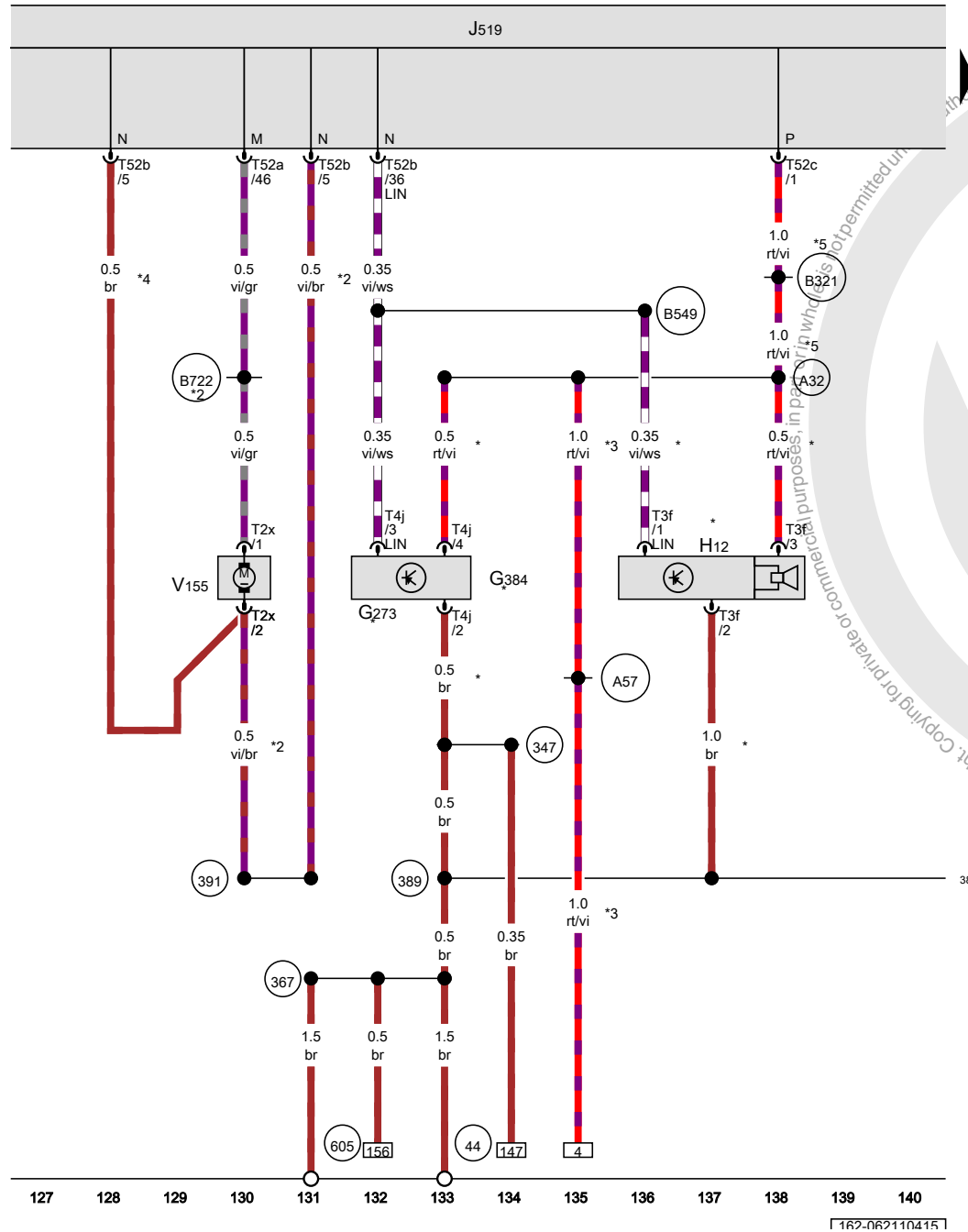
The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
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- or = orange
- rs = pink



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gn = green
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gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

Interior monitoring sensor, Vehicle inclination sensor, Alarm horn, Vehicle electrical control module system, Fuel filler door unlock motor



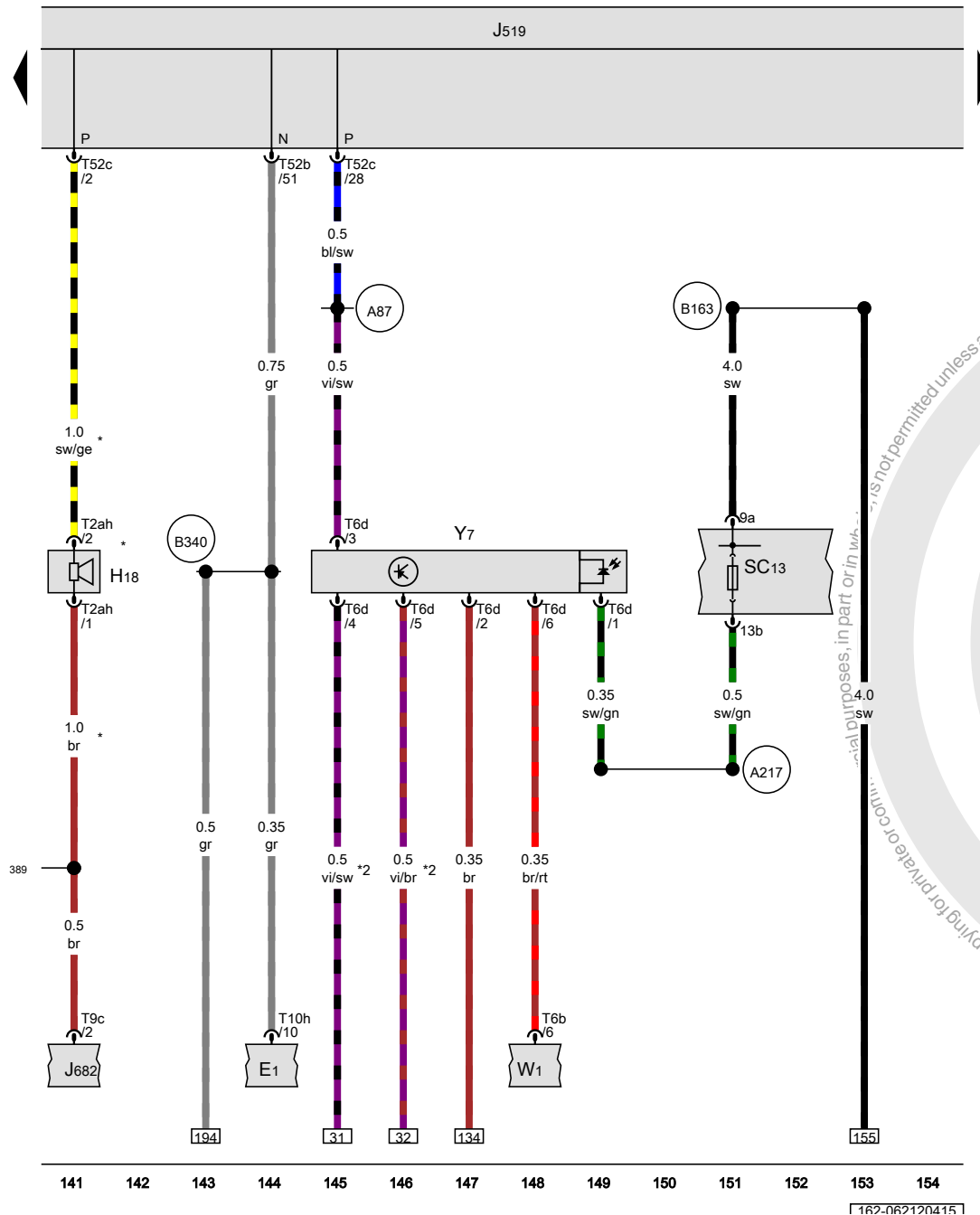
- G273 Interior monitoring sensor
- G384 Vehicle inclination sensor
- H12 Alarm horn
- J519 Vehicle electrical control module system
- T2x Double connector
- T3f 3-pin connector
- T4j 4-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V155 Fuel filler door unlock motor

- 44 Ground connection on A-pillar, lower left
- 347 Ground connection (in roof wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 391 Ground connection 26 (in main wiring harness)
- 605 Ground connection on upper steering column
- A32 Positive connection (30) (in instrument panel wiring harness)
- A57 Positive connection 3 (30) (in instrument panel wiring harness)
- B321 Positive connection 7 (30a) (in main wiring harness)
- B549 LIN bus connection 2 (in main wiring harness)
- B722 Central locking connection 3 (in main wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

- * Not for USA
- *2 Running change
- *3 Diameter depends on equipment
- *4 Omitted as a running change
- *5 USA only

162-062110415



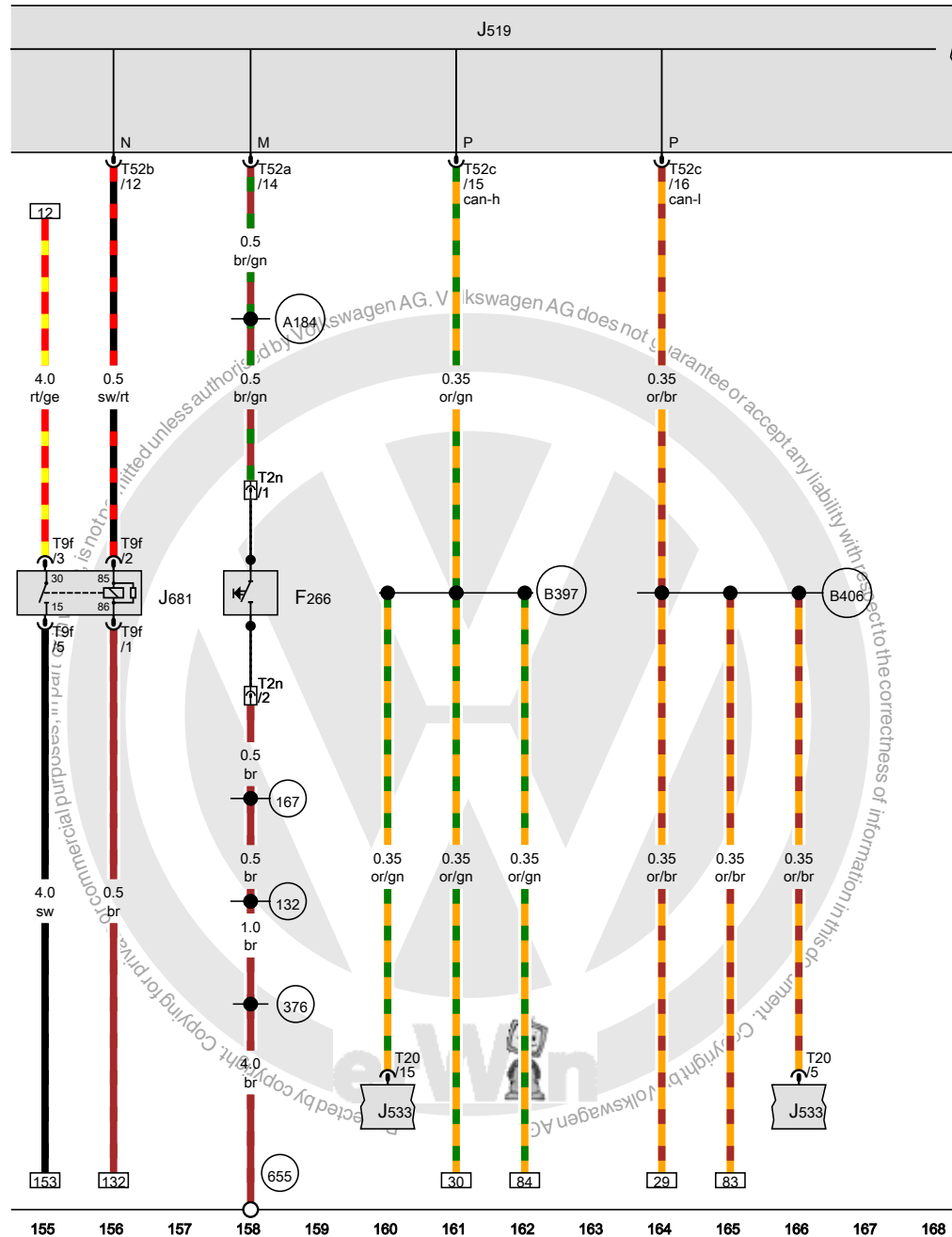
Vehicle electrical control module system, Automatic dimming interior rearview mirror

- E1 Light switch
- H18 Alarm system horn
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- SC13 Fuse 13 (on fuse panel C)
- T2ah Double connector
- T6b 6-pin connector
- T6d 6-pin connector
- T9c 9-pin connector
- T10h 10-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W1 Front interior lamp
- Y7 Automatic dimming interior rearview mirror

- 389 Ground connection 24 (in main wiring harness)
- A87 Back-up lamp connection (in instrument panel wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B340 Connection 58d (in main wiring harness)
- * USA only
- *2 Omitted as a running change

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Engine hood contact switch, Vehicle electrical control module system, Terminal 15 power supply relay 2



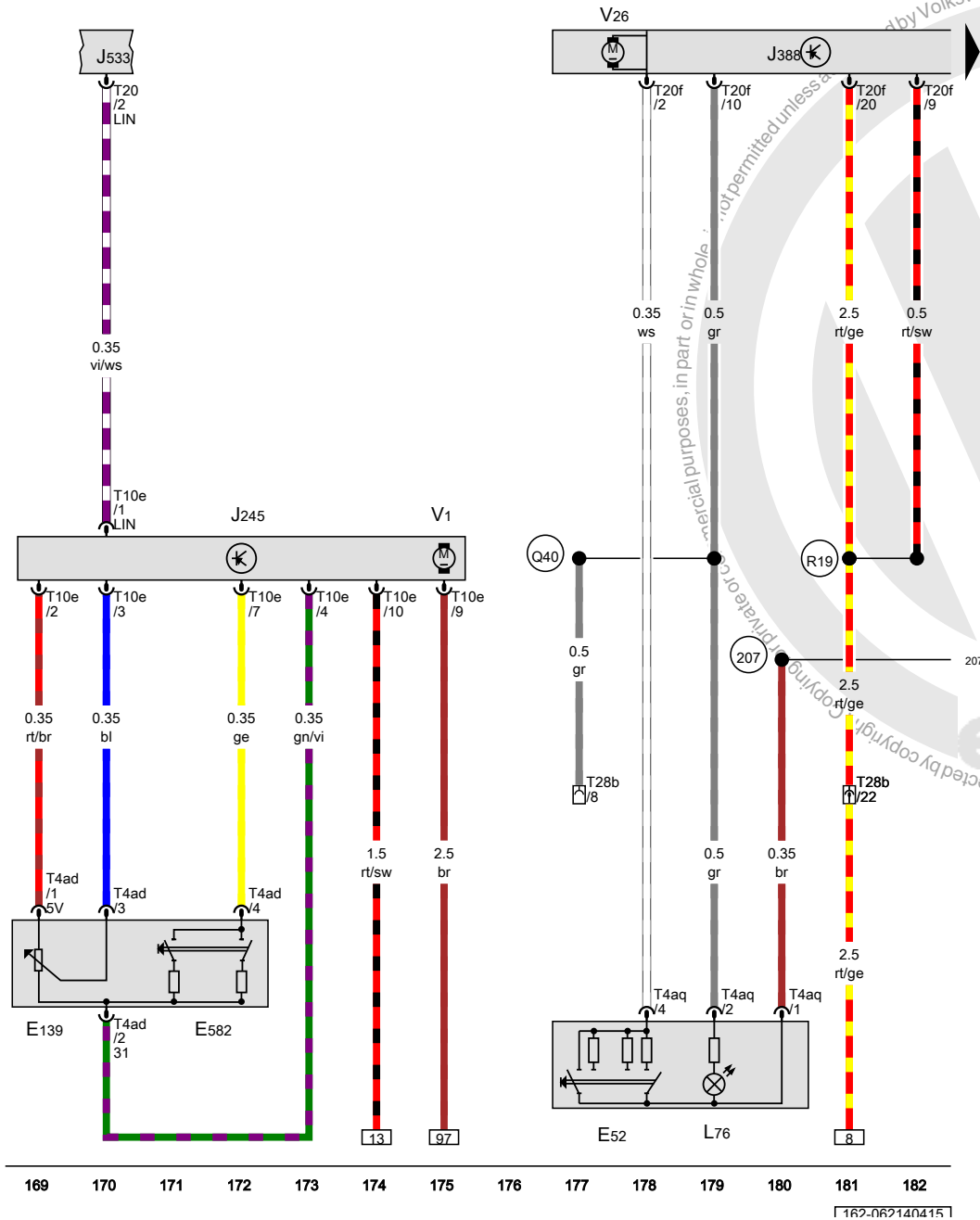
- F266 Engine hood contact switch
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- J681 Terminal 15 power supply relay 2
- T2n Double connector
- T9f 9-pin connector
- T20 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

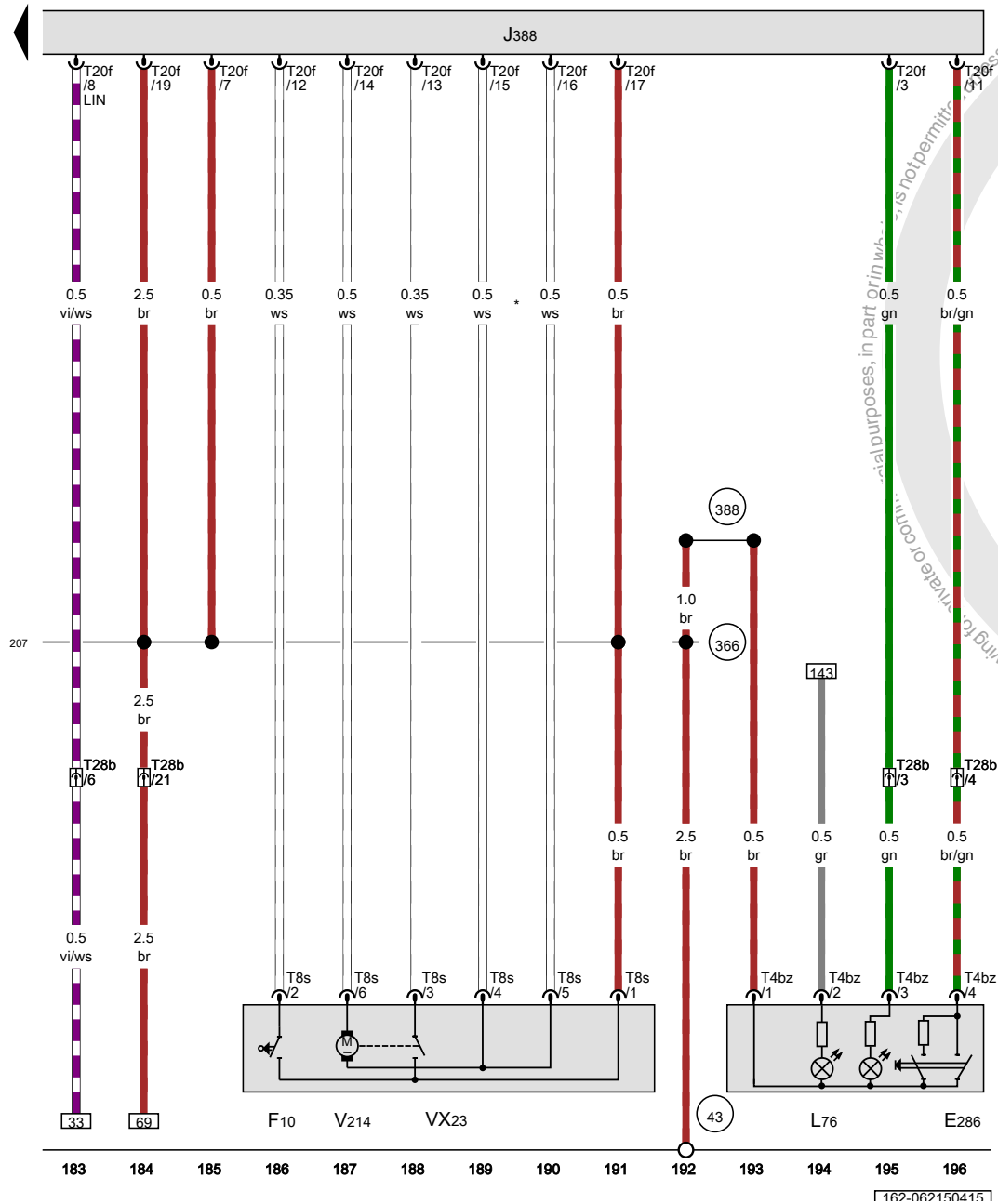
- 132 Ground connection 3 (in engine compartment wiring harness)
- 167 Ground connection 4 (in engine compartment wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- A184 Hood contact switch connection (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

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Left rear power window switch in left rear door, Sunroof adjustment regulator, Sunroof tilt button 1, Power sunroof control module, Left rear door control module, Sunroof motor, Left rear window regulator motor

- E52 Left rear power window switch in left rear door
- E139 Sunroof adjustment regulator
- E582 Sunroof tilt button 1
- J245 Power sunroof control module
- J388 Left rear door control module
- J533 Data bus on board diagnostic interface
- L76 Push button illumination bulb
- T4ad 4-pin connector
- T4aq 4-pin connector
- T10e 10-pin connector
- T20 20-pin connector
- T20f 20-pin connector
- T28b 28-pin connector, on the left B-pillar
- V1 Sunroof motor
- V26 Left rear window regulator motor
- 207 Ground connection (in left rear door wiring harness)
- Q40 Positive connection 3 (58b) (in power window wiring harness)
- R19 Positive connection 1 (30) (in left rear door wiring harness)





Rear center interior locking switch, Left rear door contact switch, Left rear door control module, Left rear door lock unit, Left rear central locking -lock- motor

- E286 Rear center interior locking switch
- F10 Left rear door contact switch
- J388 Left rear door control module
- L76 Push button illumination bulb
- T4bz 4-pin connector
- T8s 8-pin connector
- T20f 20-pin connector
- T28b 28-pin connector, on the left B-pillar
- VX23 Left rear door lock unit
- V214 Left rear central locking -lock- motor

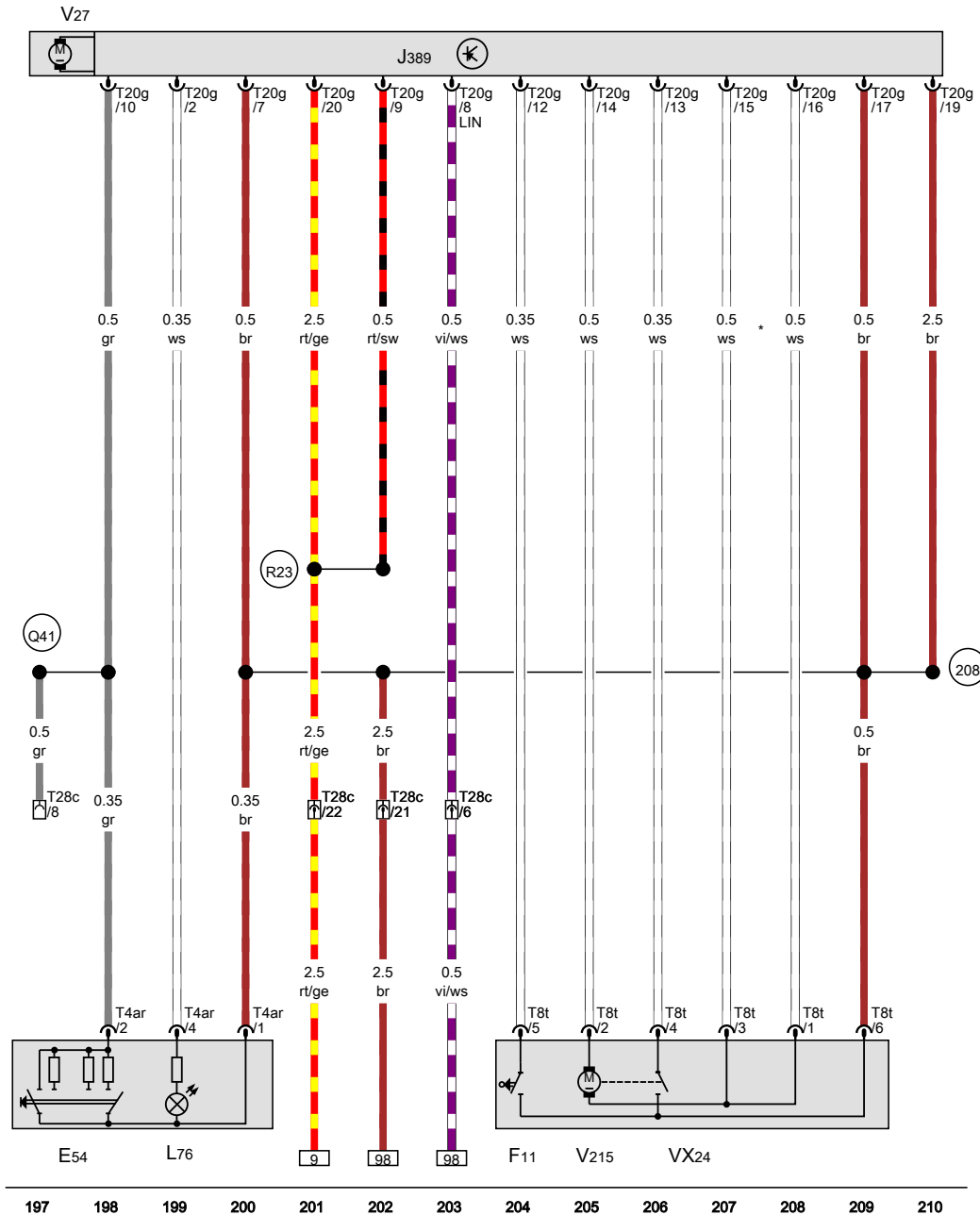
- 43 Ground connection on A-pillar, lower right
- 207 Ground connection (in left rear door wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- * Not for USA

- ws = white
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- gn = green
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- gr = grey
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- or = orange
- rs = pink

Right rear window switch in right rear door, Right rear door contact switch, Right rear door control module, Right rear door lock unit, Right rear window regulator motor, Right rear central locking -lock- motor

- E54 Right rear window switch in right rear door
- F11 Right rear door contact switch
- J389 Right rear door control module
- L76 Push button illumination bulb
- T4ar 4-pin connector
- T8t 8-pin connector
- T20g 20-pin connector
- T28c 28-pin connector, on the right B-pillar
- VX24 Right rear door lock unit
- V27 Right rear window regulator motor
- V215 Right rear central locking -lock- motor

- 208 Ground connection (in right rear door wiring harness)
- Q41 Positive connection 4 (58b) (in power window wiring harness)
- R23 Positive connection 1 (30) (in right rear door wiring harness)
- * Not for USA



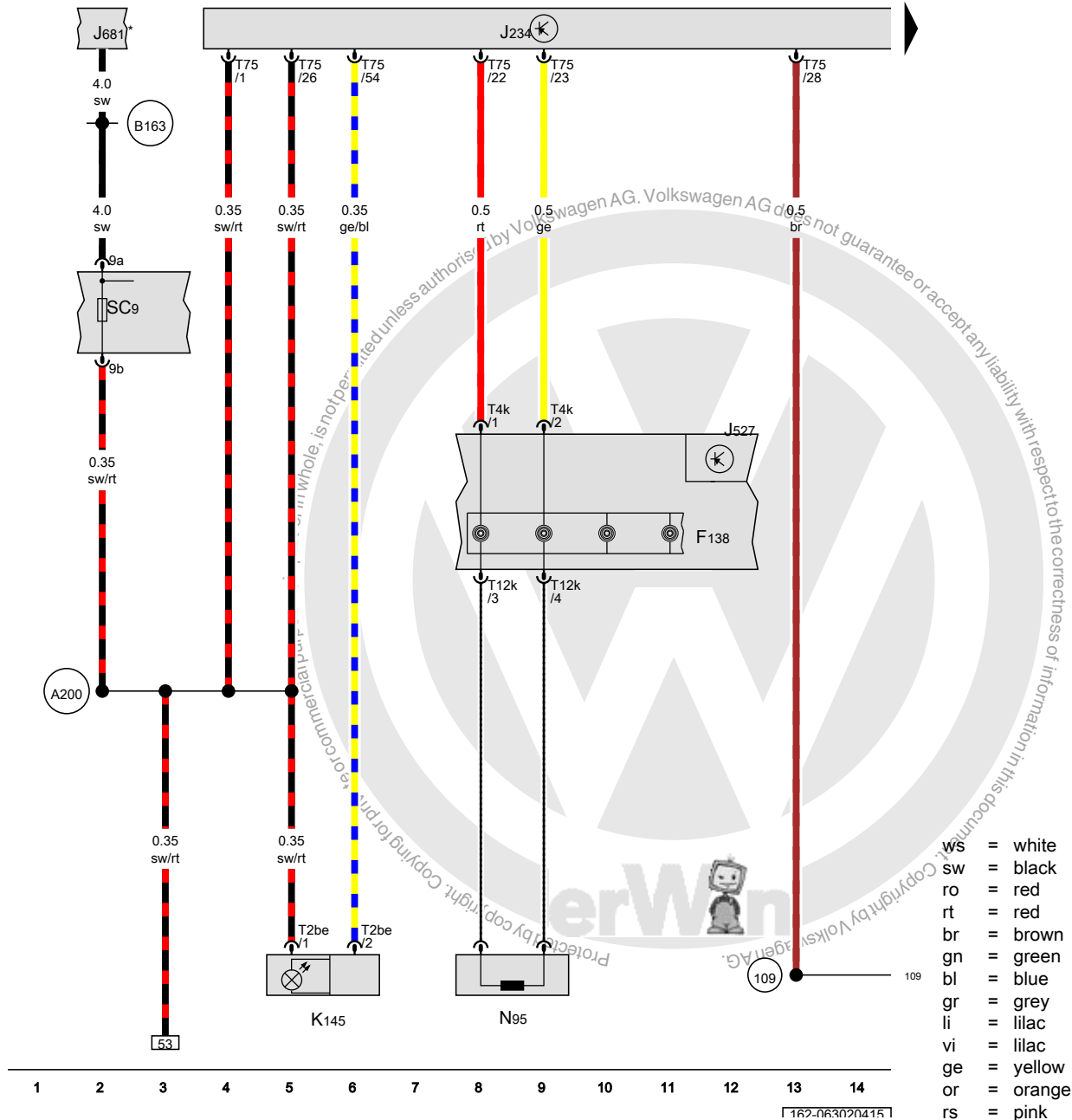
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Airbag systems (USA) , (0K0)

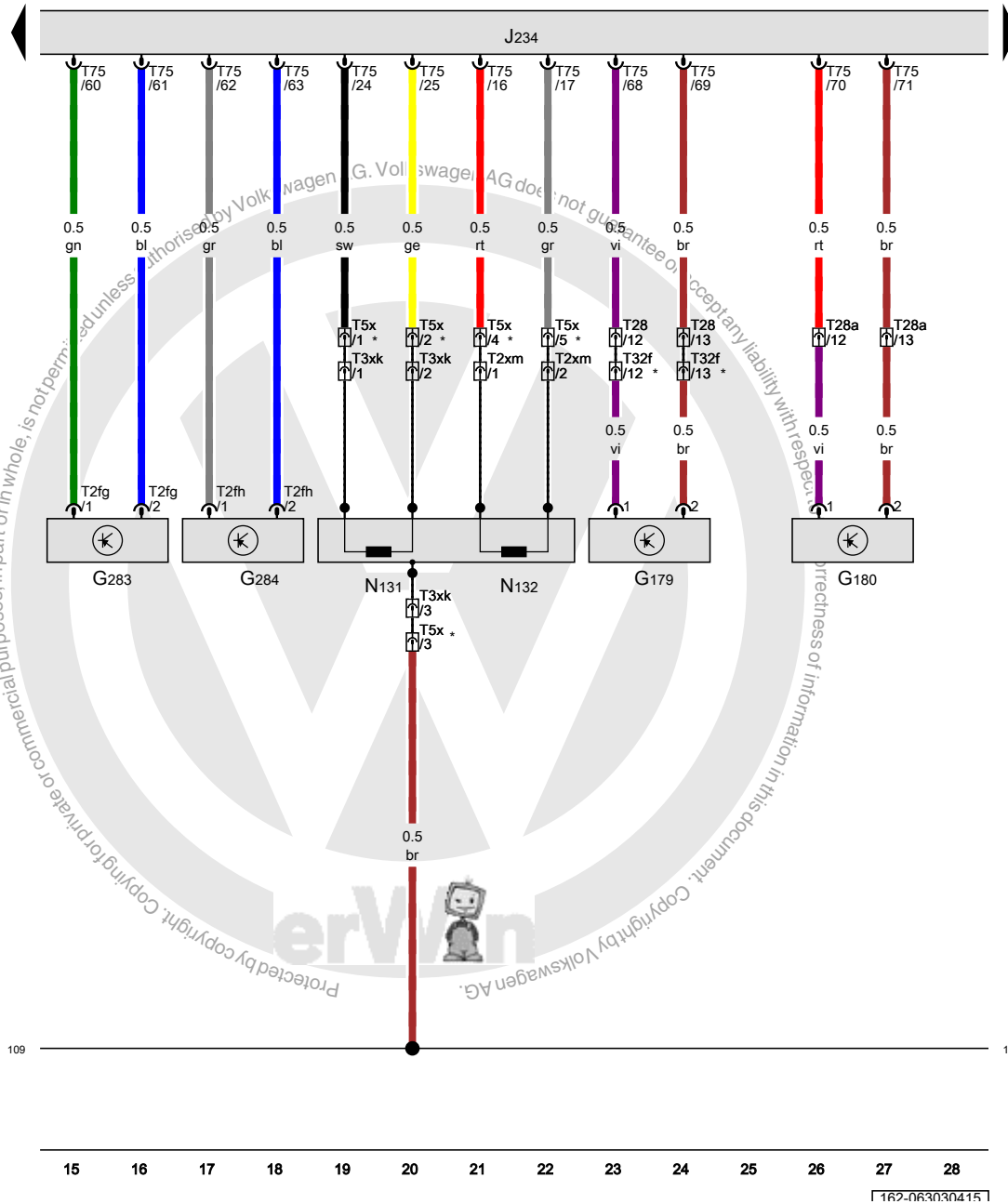
from June 2010



Airbag spiral spring/return spring with slip ring, Airbag control module, Steering column electronics control module, Front passenger airbag -disabled- indicator lamp, Driver airbag igniter



- F138 Airbag spiral spring/return spring with slip ring
- J234 Airbag control module
- J527 Steering column electronics control module
- J681 Terminal 15 power supply relay 2
- K145 Front passenger airbag -disabled- indicator lamp
- N95 Driver airbag igniter
- SC9 Fuse 9 (on fuse panel C)
- T2be Double connector
- T4k 4-pin connector
- T9f 9-pin connector
- T12k 12-pin connector
- T75 75-pin connector
- 109 Ground connection (in airbag wiring harness)
- A200 Positive connection 5 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- * Refer to applicable standard equipment wiring diagram



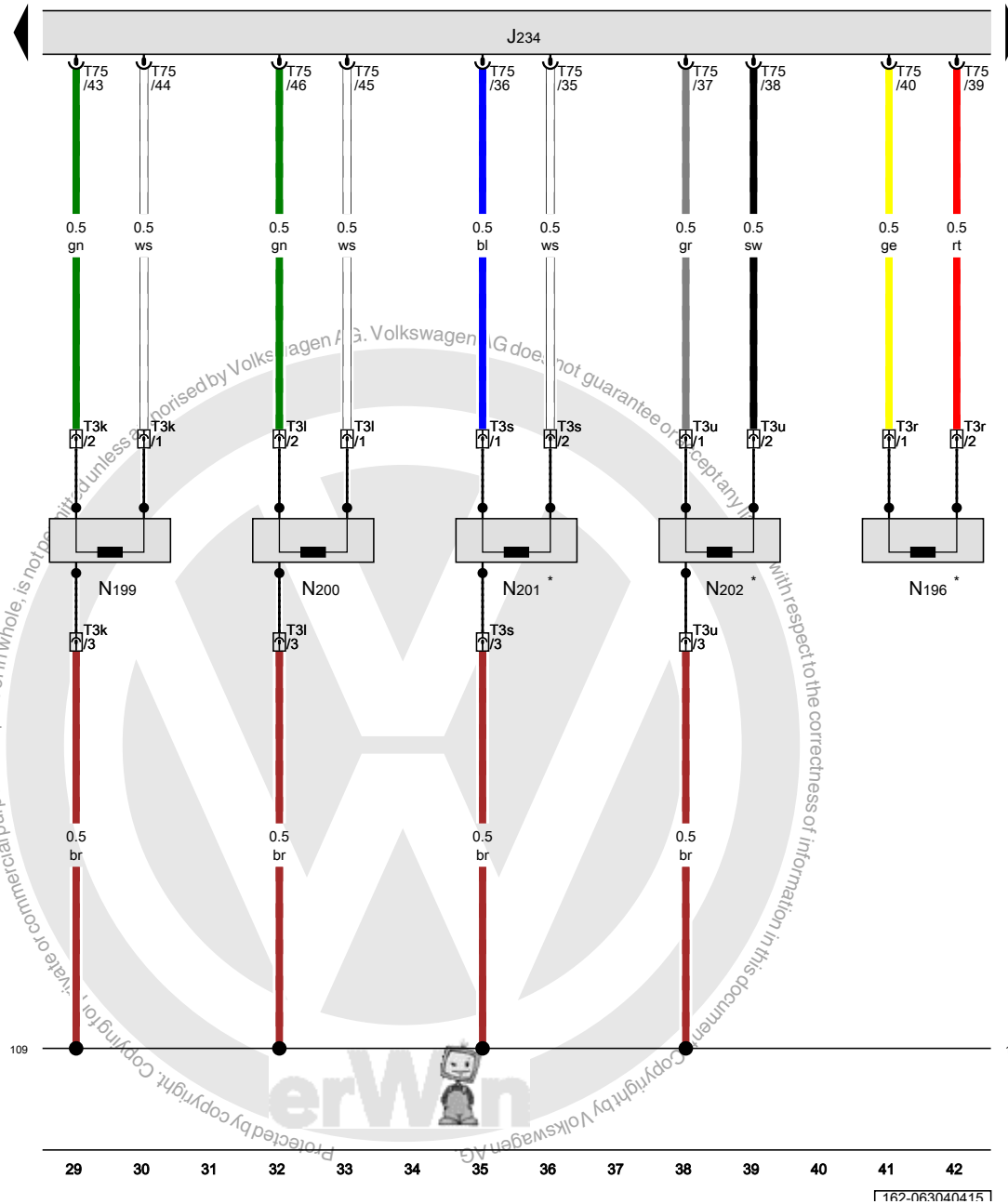
Driver side airbag crash sensor, Front passenger side airbag crash sensor, Driver front airbag crash sensor, Passenger side front airbag crash sensor, Airbag control module, Front passenger airbag igniter 1, Front passenger airbag igniter 2

- G179 Driver side airbag crash sensor
- G180 Front passenger side airbag crash sensor
- G283 Driver front airbag crash sensor
- G284 Passenger side front airbag crash sensor
- J234 Airbag control module
- N131 Front passenger airbag igniter 1
- N132 Front passenger airbag igniter 2
- T2fg Double connector
- T2fh Double connector
- T2xm Double connector
- T3xk 3-pin connector
- T5x 5-pin connector
- T28 28-pin connector
- T28a 28-pin connector
- T32f 32-pin connector
- T75 75-pin connector

109 Ground connection (in airbag wiring harness)

* Depending on equipment

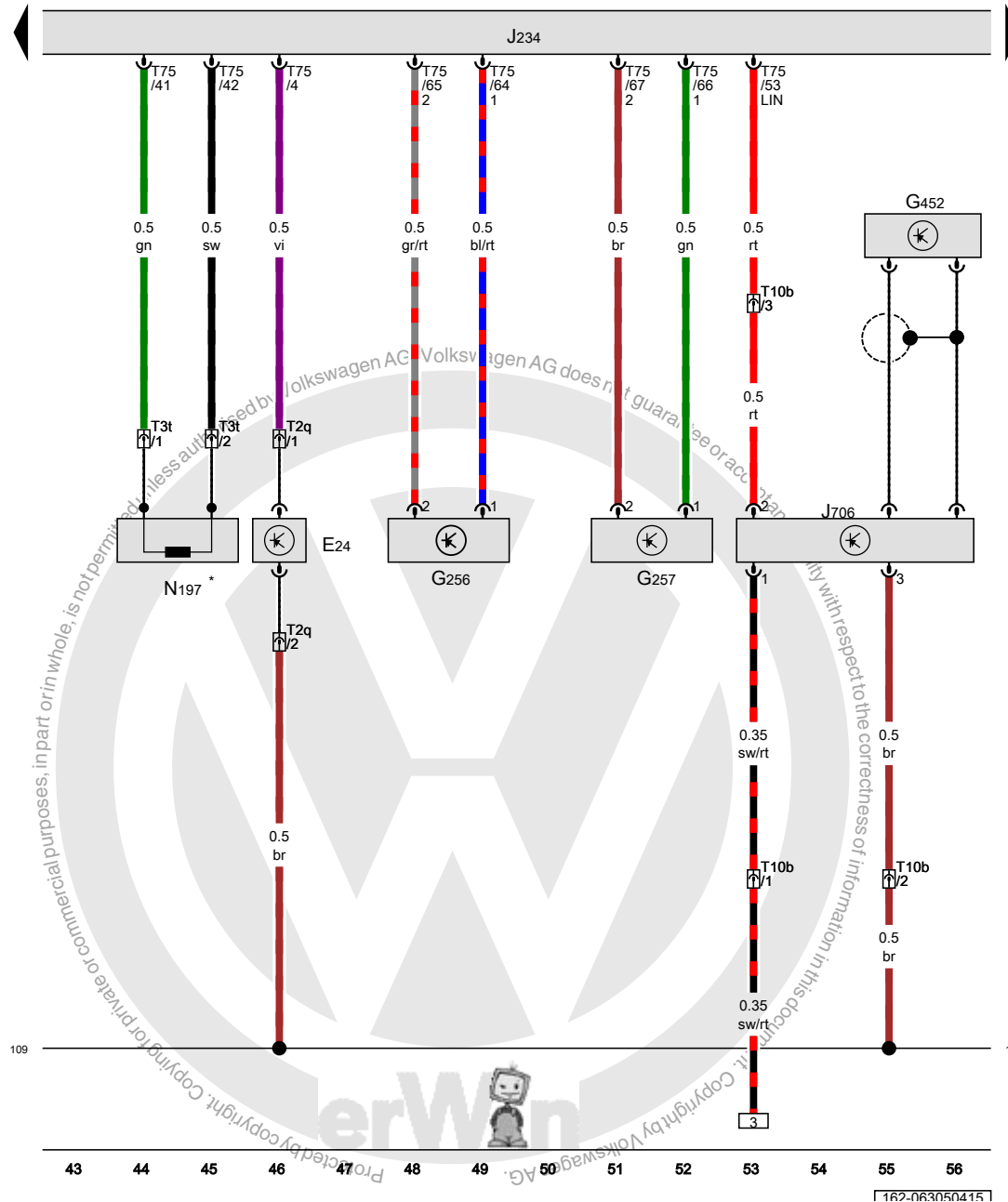
Airbag control module, Driver side rear seat belt tensioner igniter, Front passenger thorax airbag igniter, Passenger side rear thorax airbag igniter



- J234 Airbag control module
- N196 Driver side rear seat belt tensioner igniter
- N199 Driver thorax airbag igniter
- N200 Front passenger thorax airbag igniter
- N201 Driver side rear thorax airbag igniter
- N202 Passenger side rear thorax airbag igniter
- T3k 3-pin connector, under the driver seat
- T3l 3-pin connector, under the front passenger seat
- T3r 3-pin connector
- T3s 3-pin connector
- T3u 3-pin connector
- T75 75-pin connector

109 Ground connection (in airbag wiring harness)

* Depending on equipment



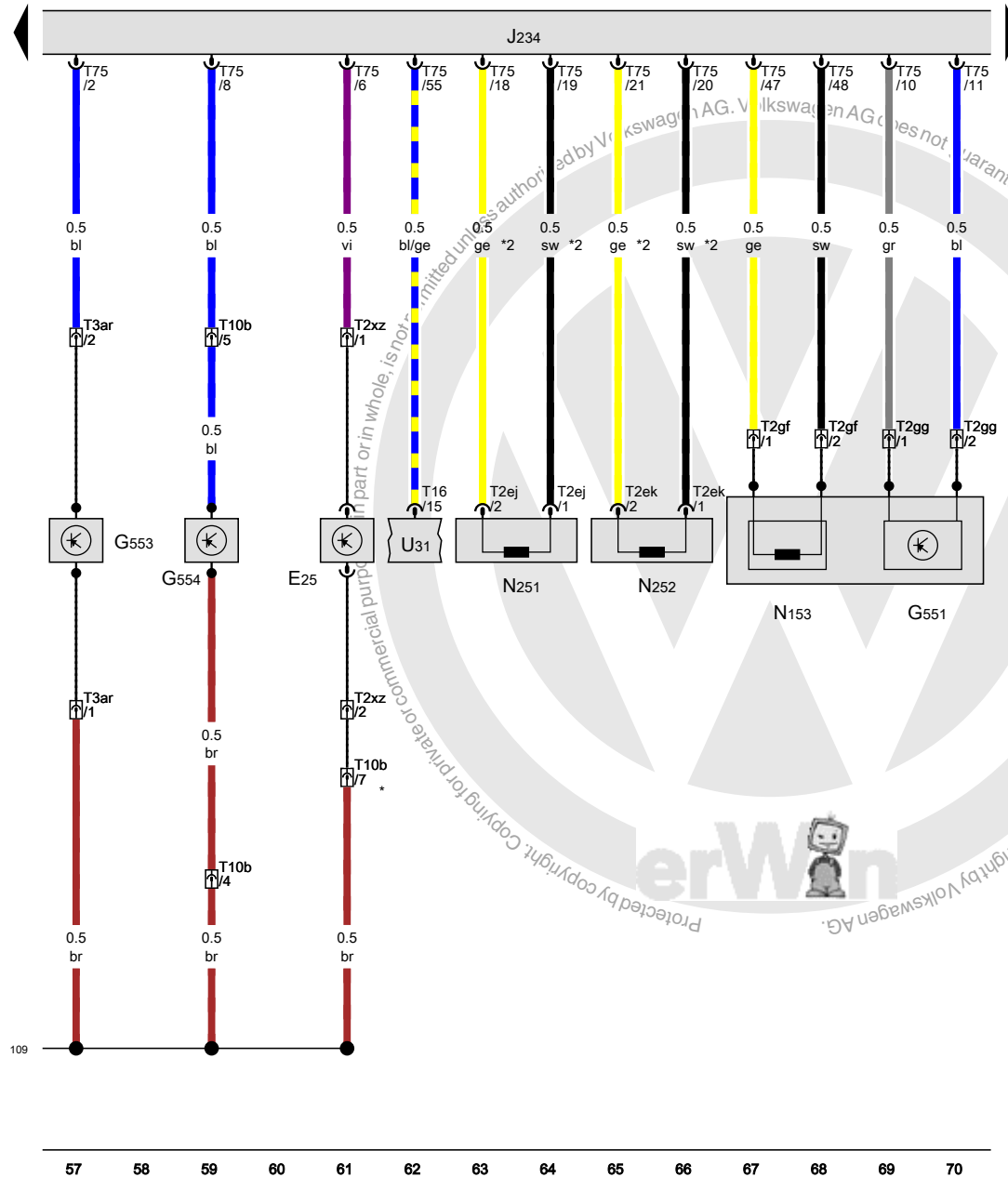
Driver seat belt switch, Driver side rear side airbag crash sensor, Passenger side rear side airbag crash sensor, Passenger occupant detection system pressure sensor, Airbag control module, Passenger occupant detection system control module, Passenger side rear seat belt tensioner igniter

- E24 Driver seat belt switch
- G256 Driver side rear side airbag crash sensor
- G257 Passenger side rear side airbag crash sensor
- G452 Passenger occupant detection system pressure sensor
- J234 Airbag control module
- J706 Passenger occupant detection system control module
- N197 Passenger side rear seat belt tensioner igniter
- T2q Double connector, under the driver seat
- T3t 3-pin connector
- T10b 10-pin connector
- T75 75-pin connector

109 Ground connection (in airbag wiring harness)

* Depending on equipment

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- gn = green
- bl = blue
- gr = grey
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- or = orange
- rs = pink



Front passenger seat belt switch, Driver belt force limiter, Driver seat position sensor, Front passenger seat position sensor, Airbag control module, Driver seat belt tensioner igniter 1, Driver head curtain airbag igniter, Front passenger head curtain airbag igniter

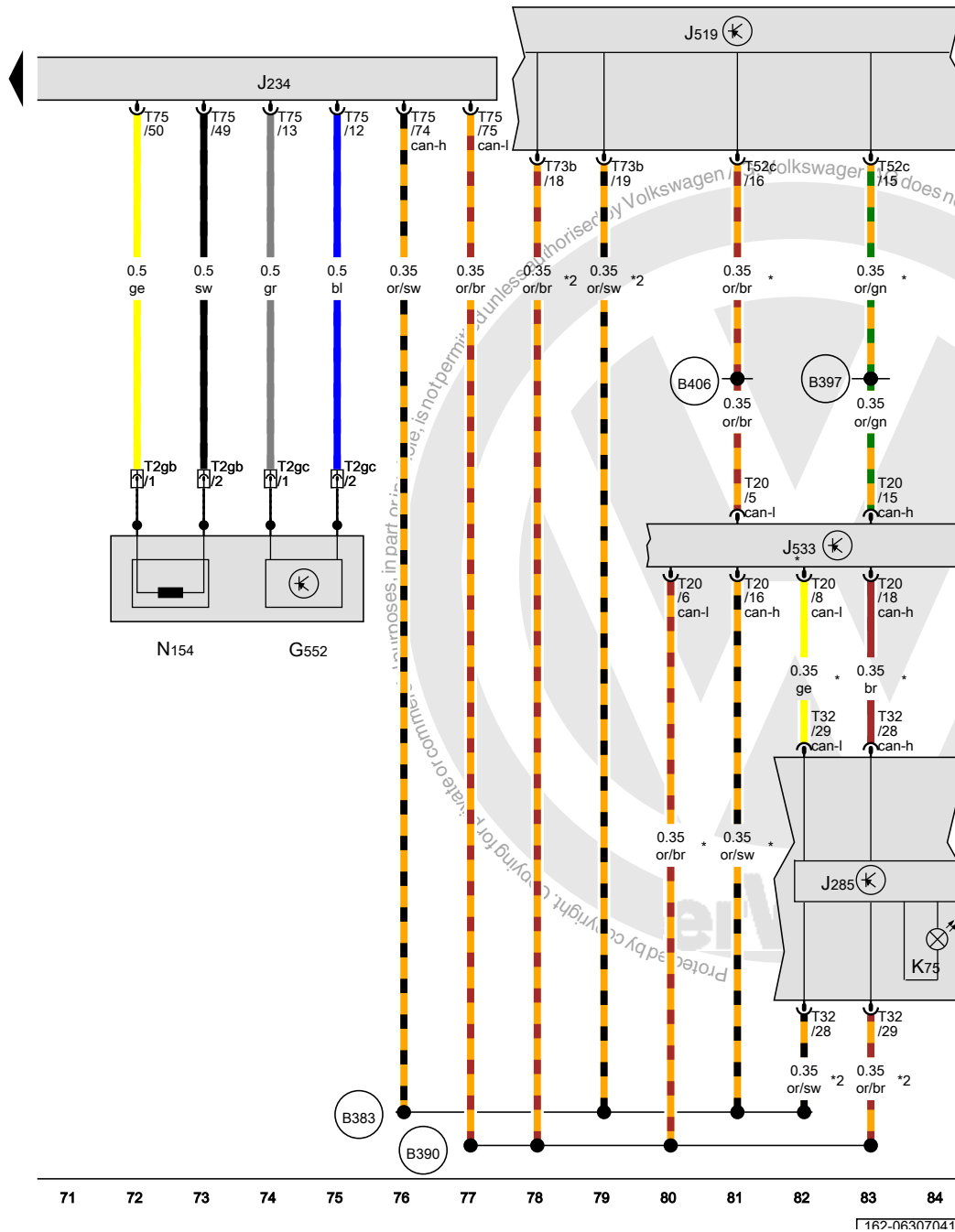
- E25 Front passenger seat belt switch
- G551 Driver belt force limiter
- G553 Driver seat position sensor
- G554 Front passenger seat position sensor
- J234 Airbag control module
- N153 Driver seat belt tensioner igniter 1
- N251 Driver head curtain airbag igniter
- N252 Front passenger head curtain airbag igniter
- T2ej Double connector
- T2ek Double connector
- T2gf Double connector
- T2gg Double connector
- T2xz Double connector, under the front passenger seat
- T3ar 3-pin connector
- T10b 10-pin connector
- T16 16-pin connector
- T75 75-pin connector
- U31 Diagnostic connection

109 Ground connection (in airbag wiring harness)

- * Depending on equipment
- *2 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
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- rt = red
- br = brown
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- bl = blue
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Front passenger belt force limiter, Airbag control module, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Airbag indicator lamp

- G552 Front passenger belt force limiter
- J234 Airbag control module
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- K75 Airbag indicator lamp
- N154 Front passenger seat belt tensioner igniter 1
- T2gb Double connector
- T2gc Double connector
- T20 20-pin connector
- T32 32-pin connector
- T52c 52-pin connector
- T73b 73-pin connector
- T75 75-pin connector

- (B383) Powertrain CAN bus high connection 1 (in main wiring harness)
- (B390) Powertrain CAN bus low connection 1 (in main wiring harness)
- (B397) Comfort system CAN bus high connection 1 (in main wiring harness)
- (B406) Comfort system CAN bus low connection 1 (in main wiring harness)
- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)

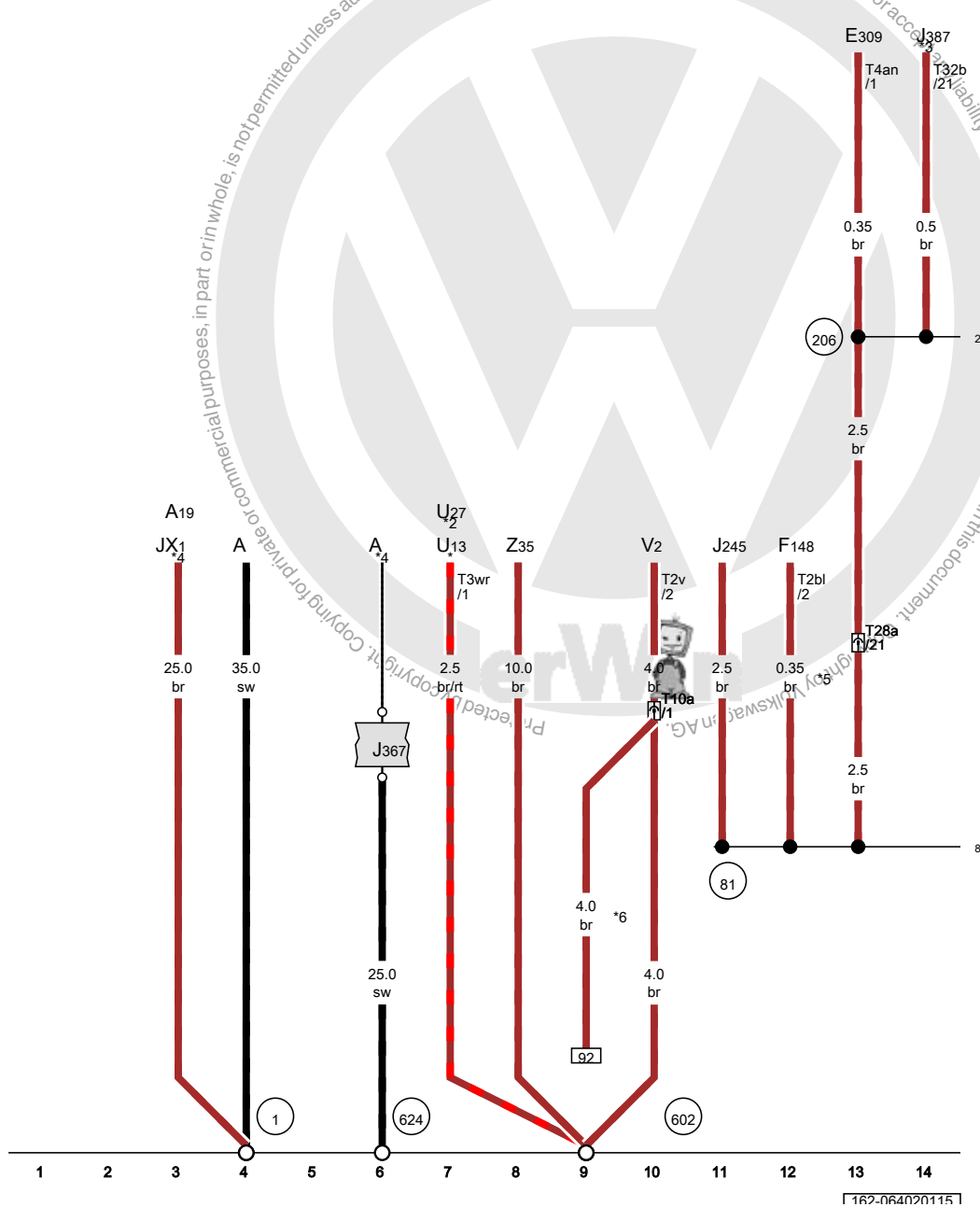
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Ground concept

from October 2011



Ground strap, battery to body, Ground connection in left front footwell

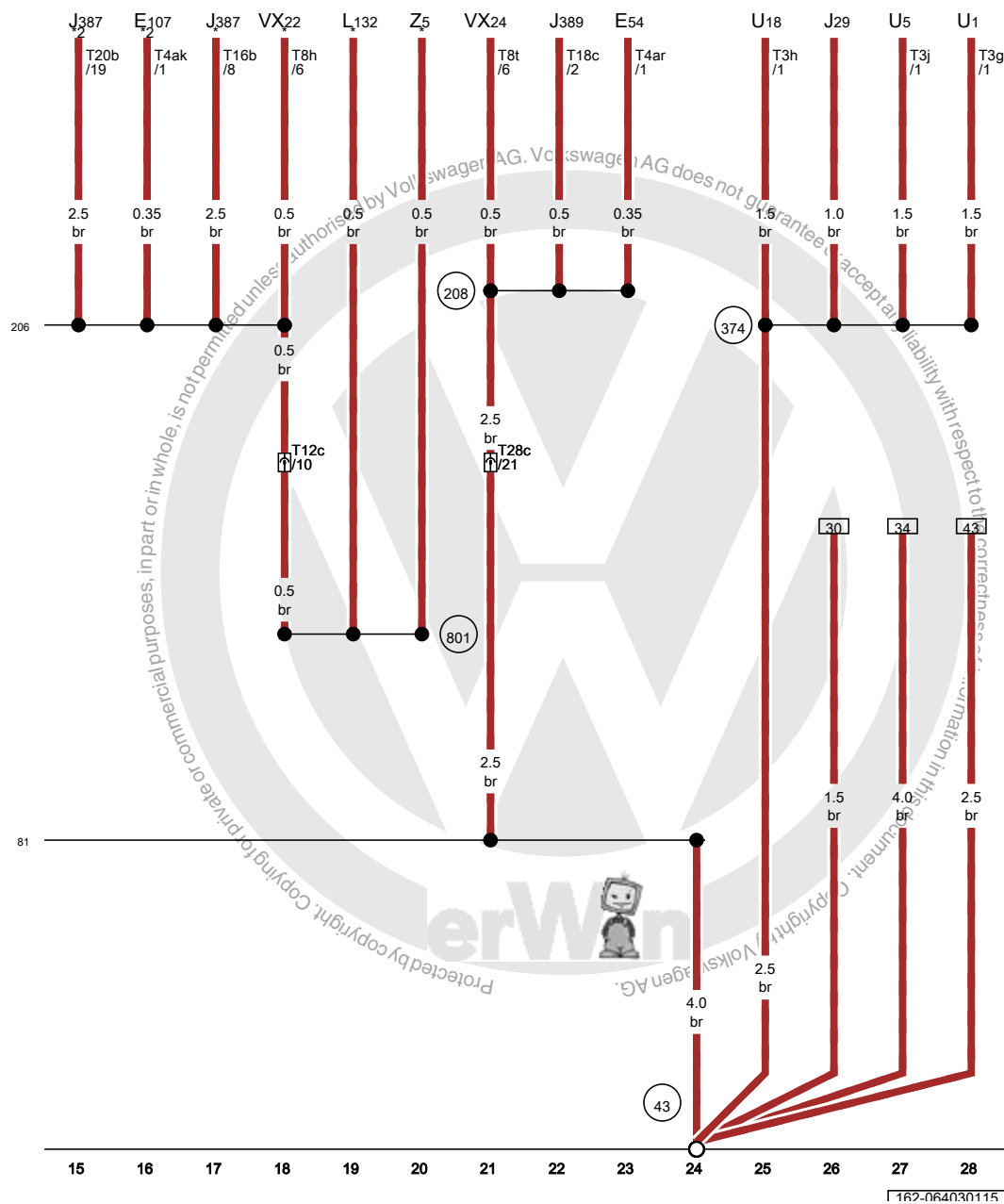


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- A Battery
- A19 Voltage converter
- E309 Front passenger interior locking button
- F148 Front passenger vanity mirror lamp contact switch
- JX1 Electric drive power and control electronics
- J245 Power sunroof control module
- J367 Battery monitoring control module
- J387 Front passenger door control module
- T2bl 2-pin connector
- T2v 2-pin connector
- T3wr 3-pin connector
- T4an 4-pin connector
- T10a 10-pin connector, behind the glove compartment
- T28a 28-pin connector, Right A-pillar, bottom
- T32b 32-pin connector
- U13 Converter with socket, 12 V-230 V
- U27 Converter with socket, 12 V-115 V
- V2 Fresh air blower
- Z35 Auxiliary heater heating element

- 1 Ground strap, battery to body
- 81 Ground connection 1 (in instrument panel wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- 602 Ground connection in left front footwell
- 624 Ground connection near starter battery

- * Not for USA
- *2 USA only
- *3 only for vehicles with High equipment (AW1)
- *4 only for vehicles with hybrid drive
- *5 Diameter depends on equipment
- *6 Only for right-hand drive vehicles

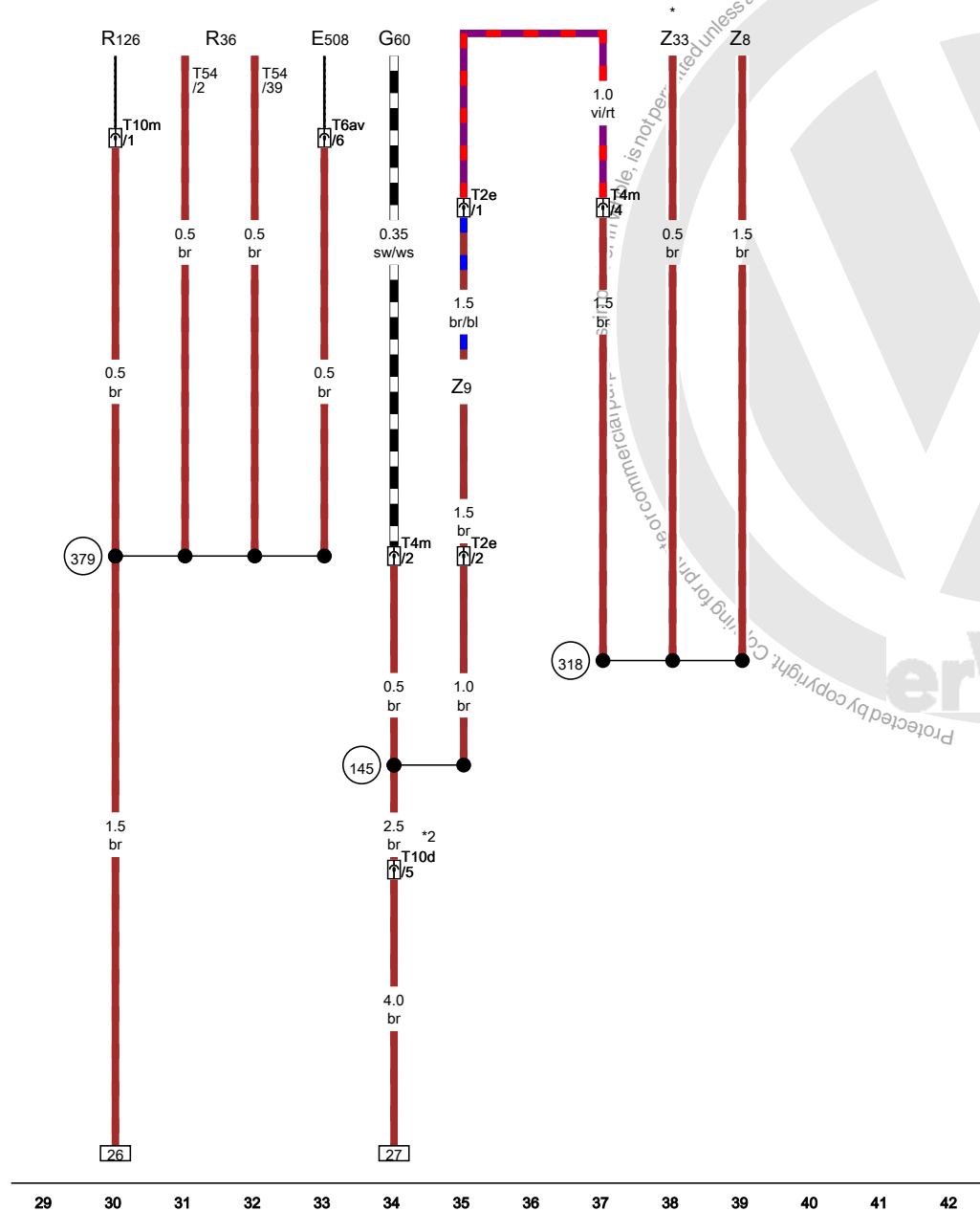


Ground connection on A-pillar, lower right, Ground connection (in right rear door wiring harness)

- E54 Right rear window switch in right rear door
- E107 Front passenger door window regulator switch
- J29 Blocking diode, in the interior wiring harness
- J387 Front passenger door control module
- J389 Right rear door control module
- L132 Front passenger exterior rearview mirror turn signal bulb
- T3g 3-pin connector
- T3h 3-pin connector
- T3j 3-pin connector
- T4ak 4-pin connector
- T4ar 4-pin connector
- T8h 8-pin connector
- T8t 8-pin connector
- T12c 12-pin connector, in the front passenger door
- T16b 16-pin connector
- T18c 18-pin connector
- T20b 20-pin connector
- T28c 28-pin connector, Right B-pillar, bottom
- U1 Cigarette lighter
- U5 12 V socket
- U18 12 V socket 2
- VX22 Front passenger door lock unit
- VX24 Right rear door lock unit
- Z5 Heated front passenger exterior rearview mirror
- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- 208 Ground connection (in right rear door wiring harness)
- 374 Ground connection 9 (in main wiring harness)
- 801 Ground connection 2 (in exterior rearview mirror wiring harness), in the left door, near the exterior rearview mirror
- * only for vehicles with Low equipment (AW0)
- *2 only for vehicles with High equipment (AW1)

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 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
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 ge = yellow
 or = orange
 rs = pink

Ground connection 3 (in heated seats wiring harness),
Ground connection 4 (in heated seats wiring harness),
Ground connection 14 (in main wiring harness)



- E508 Cellular telephone preparation control head
- G60 Front passenger heated seat temperature sensor
- R36 Telephone transceiver
- R126 Telephone baseplate
- T2e 2-pin connector, in the seat
- T4m 4-pin connector, in the seat
- T6av 6-pin connector
- T10d 10-pin connector, under the front passenger seat
- T10m 10-pin connector
- T54 54-pin connector
- Z8 Front passenger seat heating element
- Z9 Front passenger backrest heating element
- Z33 Front passenger seat bolster heater

- 145 Ground connection 3 (in heated seats wiring harness)
- 318 Ground connection 4 (in heated seats wiring harness)
- 379 Ground connection 14 (in main wiring harness)

* Omitted as a running change
*2 Diameter depends on equipment

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li = lilac
vi = lilac
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or = orange
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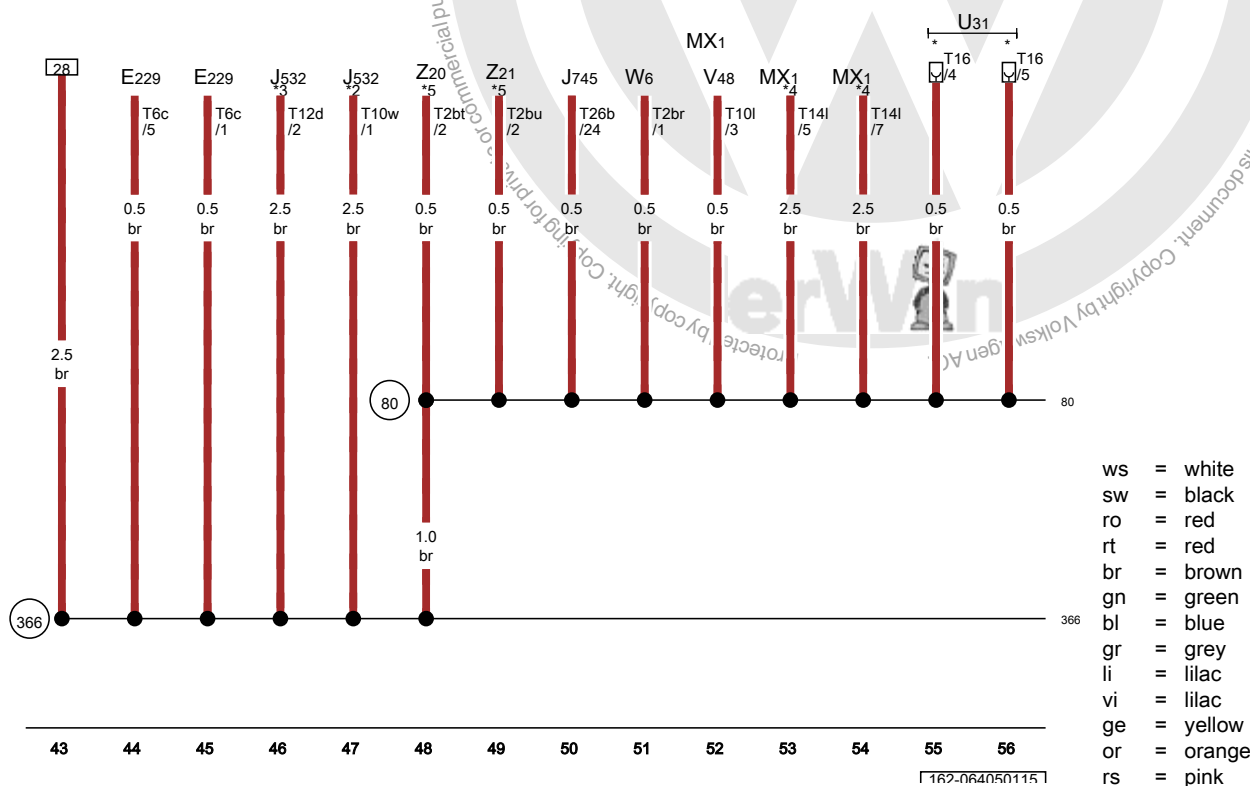
Diagnostic connection, Ground connection 1 (in main wiring harness)

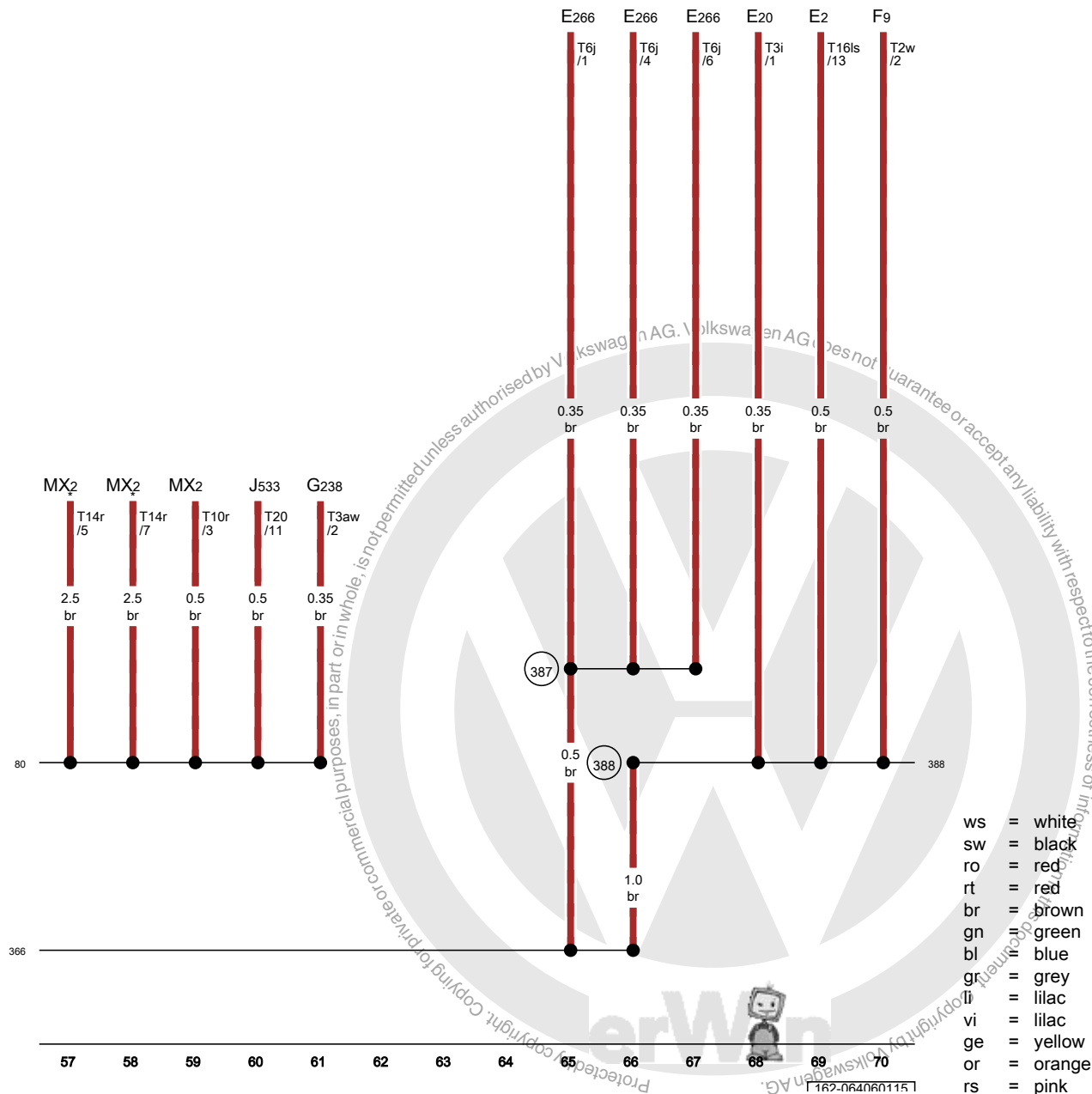
- E229 Emergency flasher button
- J532 Voltage stabilizer
- J745 Cornering lamp and headlamp range control module
- MX1 Left front headlamp
- T2br 2-pin connector
- T2bt 2-pin connector
- T2bu 2-pin connector
- T6c 6-pin connector
- T10l 10-pin connector
- T10w 10-pin connector
- T12d 12-pin connector
- T14l 14-pin connector
- T16 16-pin connector
- T26b 26-pin connector
- U31 Diagnostic connection, near the lower left A-pillar
- V48 Left headlamp beam adjustment motor
- W6 Glove compartment lamp
- Z20 Left washer nozzle heater
- Z21 Right washer nozzle heater

80 Ground connection 1 (in instrument cluster wiring harness)

366 Ground connection 1 (in main wiring harness)

- * Diagnostic connector
- *2 Omitted as a running change
- *3 Running change
- *4 HID headlamps
- *5 From June 2013

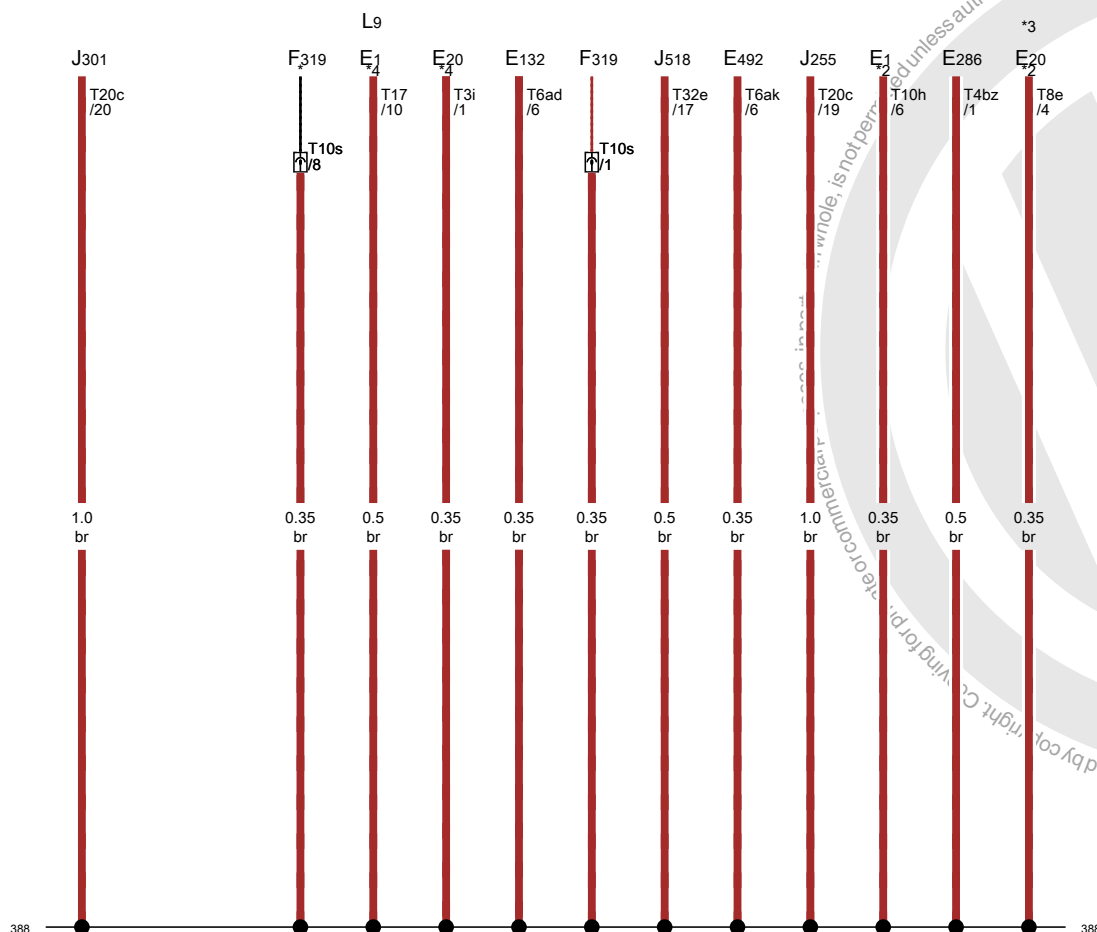




Ground connection 1 (in main wiring harness), Ground connection 23 (in main wiring harness)

- E2 Turn signal switch
- E20 Instrument panel and switch illumination dimmer switch
- E266 Parking aid button
- F9 Parking brake indicator lamp switch
- G238 Air quality sensor
- J533 Data bus on board diagnostic interface
- MX2 Right front headlamp
- T2w 2-pin connector
- T3aw 3-pin connector
- T3i 3-pin connector
- T6j 6-pin connector
- T10r 10-pin connector
- T14r 14-pin connector
- T16ls 16-pin connector
- T20 20-pin connector

- 80 Ground connection 1 (in instrument cluster wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- * HID headlamps



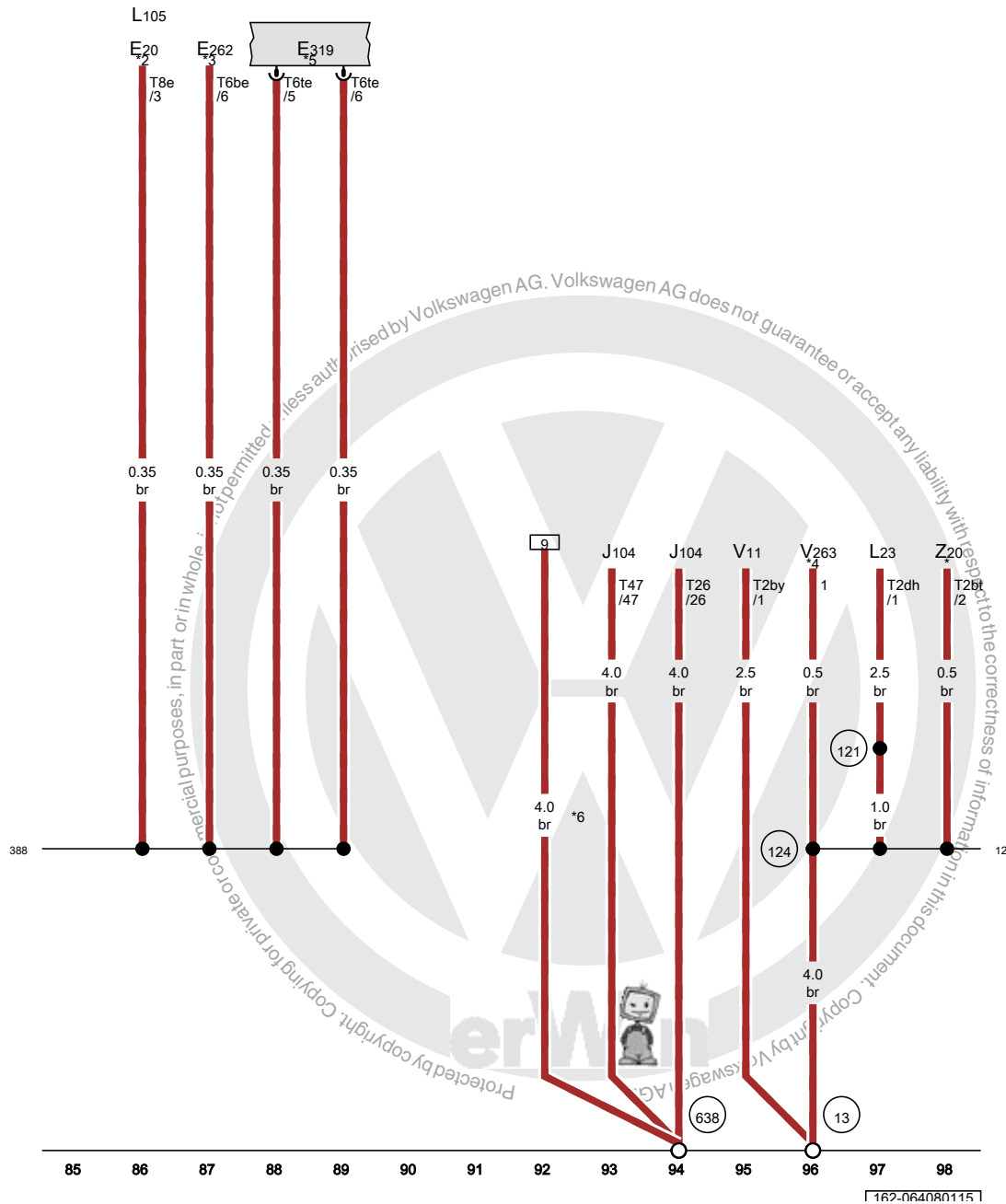
Ground connection 23 (in main wiring harness)

- E1 Light switch
- E20 Instrument panel and switch illumination dimmer switch
- E132 ASR switch
- E286 Rear center interior locking switch
- E492 Tire pressure monitoring display button
- F319 Selector lever park position lock switch
- J255 Climatronic control module
- J301 A/C control module
- J518 Access/start authorization control module
- L9 Headlamp switch illumination bulb
- T3i 3-pin connector
- T4bz 4-pin connector
- T6ad 6-pin connector
- T6ak 6-pin connector
- T8e 8-pin connector
- T10h 10-pin connector
- T10s 10-pin connector
- T17 17-pin connector
- T20c 20-pin connector
- T32e 32-pin connector

388 Ground connection 23 (in main wiring harness)

- * not for vehicles with dual clutch transmission
- *2 only for vehicles with High equipment (AW1)
- *3 Depending on equipment
- *4 only for vehicles with Low equipment (AW0)

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Ground connection in engine compartment, right, Ground connection 23 (in main wiring harness), Ground connection on right A-pillar

- E20 Instrument panel and switch illumination dimmer switch
- E262 Start/Stop mode switch
- E319 Fuel filler door release button
- J104 ABS control module
- L23 Right front fog lamp bulb
- L105 Lighting control illumination bulb
- T2bt 2-pin connector
- T2by 2-pin connector
- T2dh 2-pin connector
- T6be 6-pin connector
- T6te 6-pin connector
- T8e 8-pin connector
- T26 26-pin connector
- T47 47-pin connector
- V11 Headlamp washer pump
- V263 Cold start fuel pump
- Z20 Left washer nozzle heater
- 13 Ground connection in engine compartment, right
- 121 Ground connection 2 (in right front wiring harness)
- 124 Ground connection (in right engine compartment wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 638 Ground connection on right A-pillar
- * Through May 2013
- *2 only for vehicles with High equipment (AW1)
- *3 Only for vehicles with Start/Stop system
- *4 Refer to applicable engine wiring diagram
- *5 only for vehicles with hybrid drive
- *6 Only for right-hand drive vehicles

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Audio ground connection under front center console,
Ground connection on left headlamp

- H1 Signal horn and dual tone horn
- J503 Radio/navigation display unit control module
- J650 Multimedia system control module
- MX1 Left front headlamp
- MX2 Right front headlamp
- R Radio
- R12 Amplifier
- R189 Rearview camera
- T2bu 2-pin connector
- T2dj 2-pin connector
- T4cq 4-pin connector
- T10l 10-pin connector
- T10r 10-pin connector
- T12h 12-pin connector
- T16d 16-pin connector
- T38 38-pin connector
- Z21 Right washer nozzle heater

124 Ground connection (in right engine compartment wiring harness)

370 Ground connection 5 (in main wiring harness)

371 Ground connection 6 (in main wiring harness)

376 Ground connection 11 (in main wiring harness)

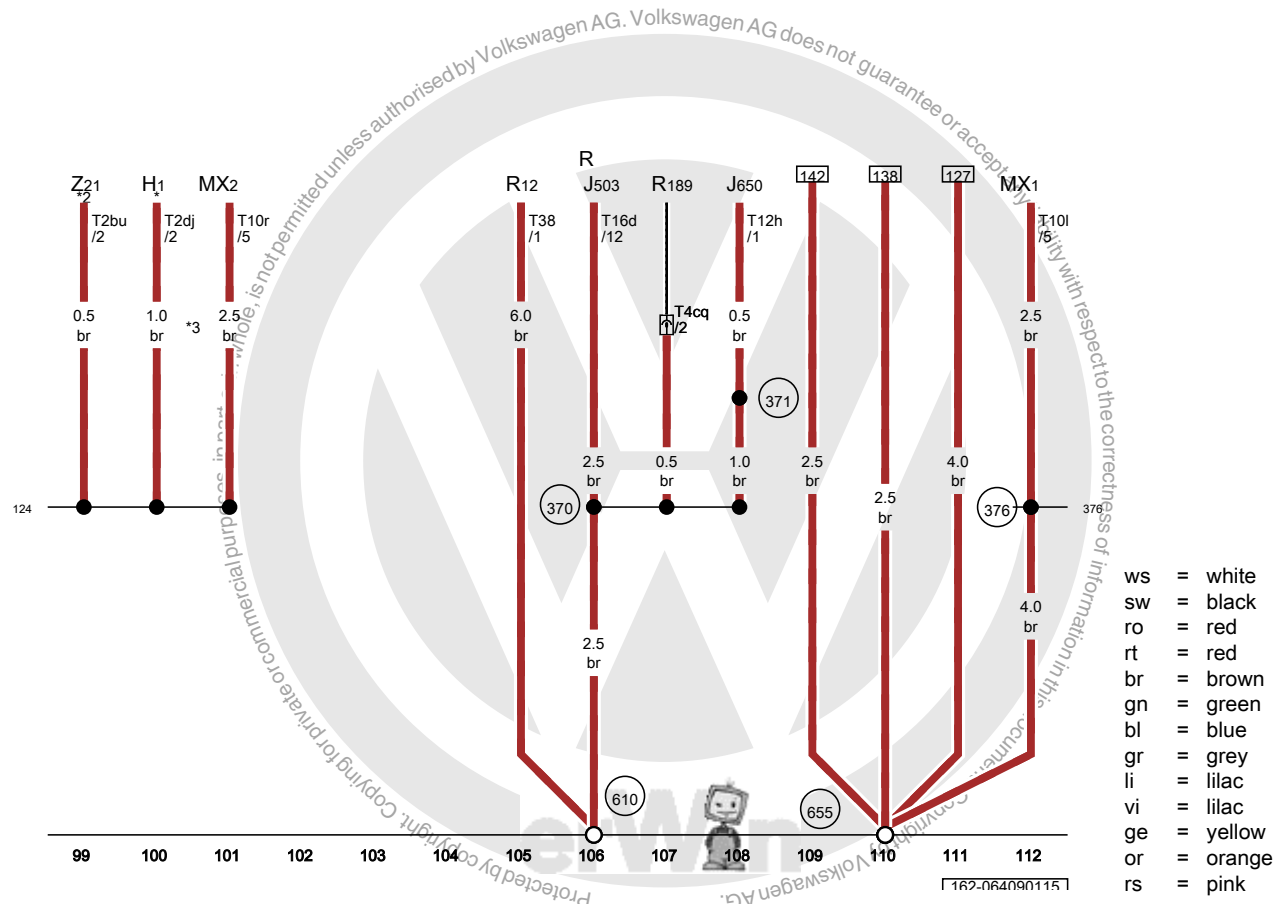
610 Audio ground connection under front center console

655 Ground connection on left headlamp

* Only for vehicles with dual tone horn

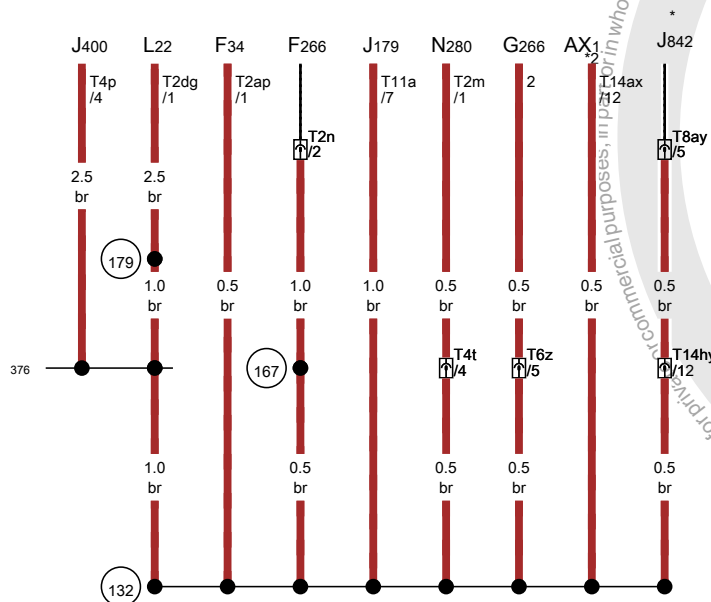
*2 Through May 2013

*3 1.5 diameter possible



Ground connection 3 (in engine compartment wiring harness)

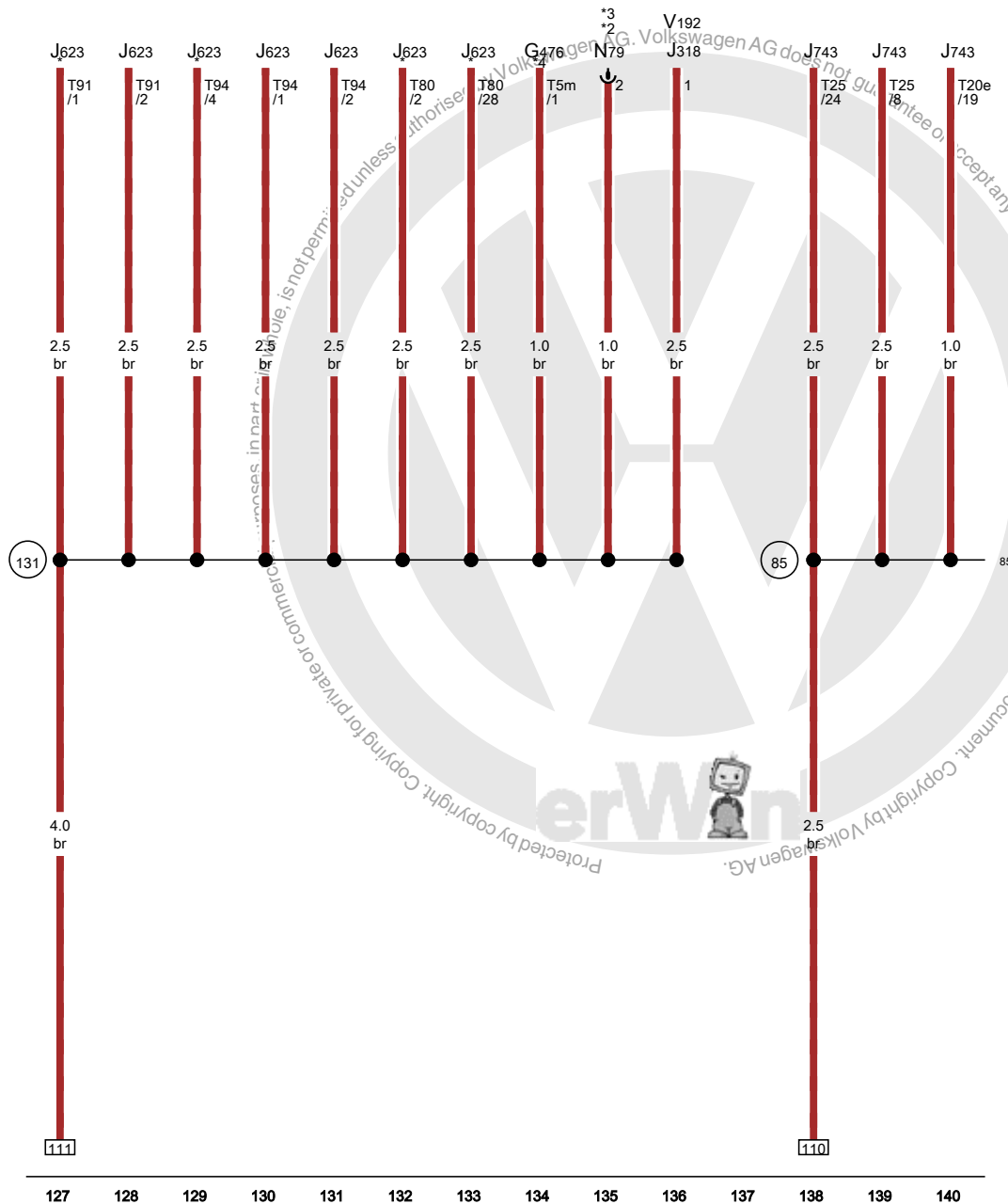
- AX1 Hybrid battery unit
- F34 Brake fluid level warning switch
- F266 Engine hood contact switch
- G266 Oil level thermal sensor
- J179 Automatic glow time control module
- J400 Wiper motor control module
- J842 A/C compressor control module
- L22 Left front fog lamp bulb
- N280 A/C compressor regulator valve
- T2ap 2-pin connector
- T2dg 2-pin connector
- T2m 2-pin connector
- T2n 2-pin connector, in the engine compartment, left, near the headlamp
- T4p 4-pin connector
- T4t 4-pin connector, near the starter
- T6z 6-pin connector, near the E-box
- T8ay 8-pin connector
- T11a 11-pin connector
- T14ax 14-pin connector
- T14hy 14-pin connector, black



- 132 Ground connection 3 (in engine compartment wiring harness)
- 167 Ground connection 4 (in engine compartment wiring harness)
- 179 Ground connection (in left headlamp wiring harness)
- 376 Ground connection 11 (in main wiring harness)

* only for vehicles with hybrid drive
*2 Refer to applicable engine wiring diagram

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- sw = black
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- gn = green
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- vi = lilac
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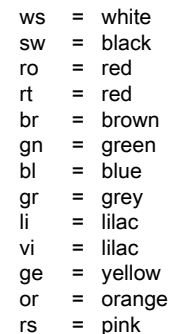
Ground connection 1 (in engine compartment wiring harness), Ground connection 2 (in engine compartment wiring harness)

- G476 Clutch position sensor
- J318 Vacuum pump relay
- J623 Engine control module
- J743 DSG transmission Mechatronic
- N79 Positive crankcase ventilation heating element
- T5m 5-pin connector
- T20e 20-pin connector
- T25 25-pin connector
- T80 80-pin connector
- T91 91-pin connector
- T94 94-pin connector
- V192 Brake system vacuum pump

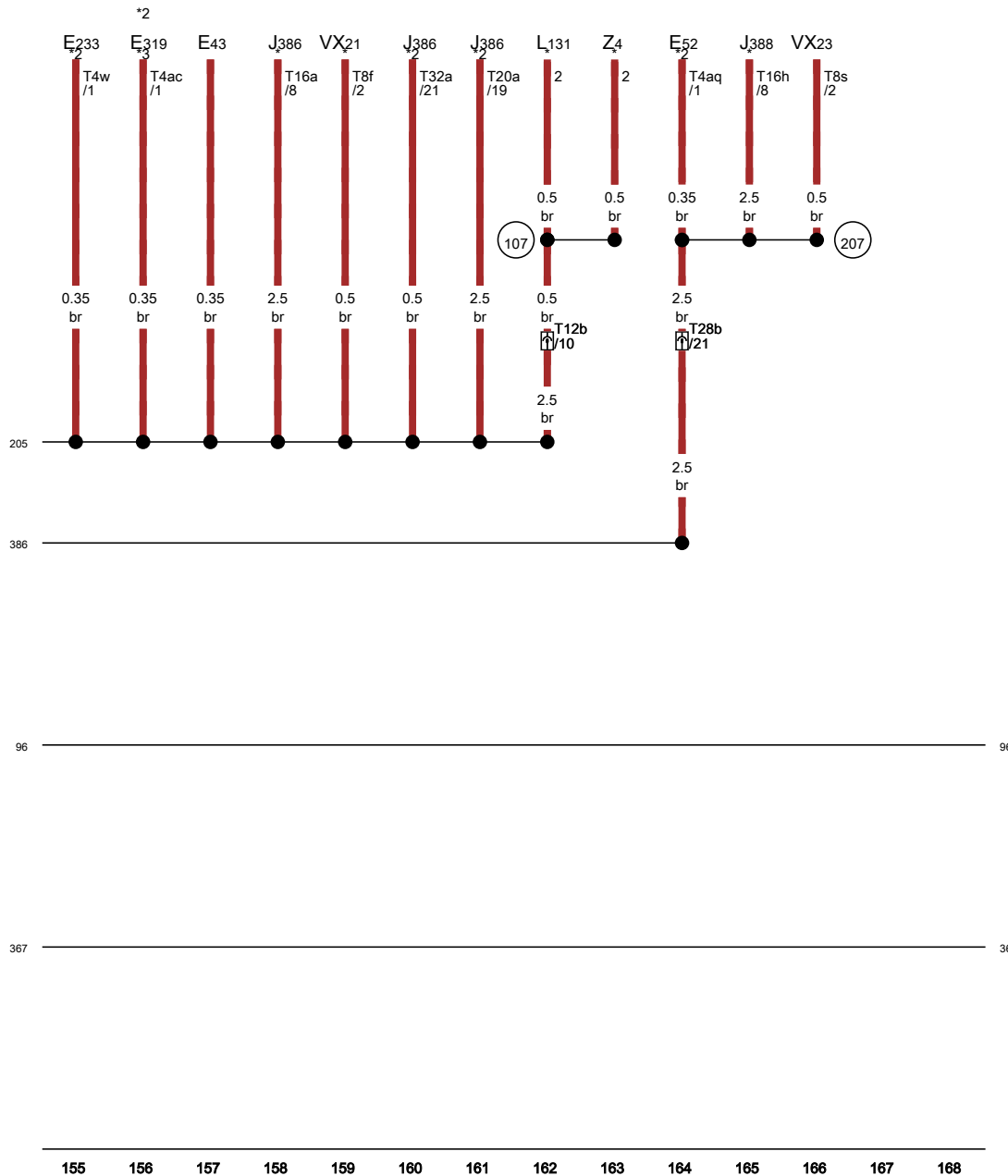
- 85 Ground connection 1 (in engine compartment wiring harness)
- 131 Ground connection 2 (in engine compartment wiring harness)

- * Refer to applicable engine wiring diagram
- *2 Only for vehicles with a 1.6L engine
- *3 Only for vehicles with a diesel engine
- *4 Only for vehicles with Start/Stop system

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



* only for vehicles with Low equipment (AW0)
*2 only for vehicles with High equipment (AW1)



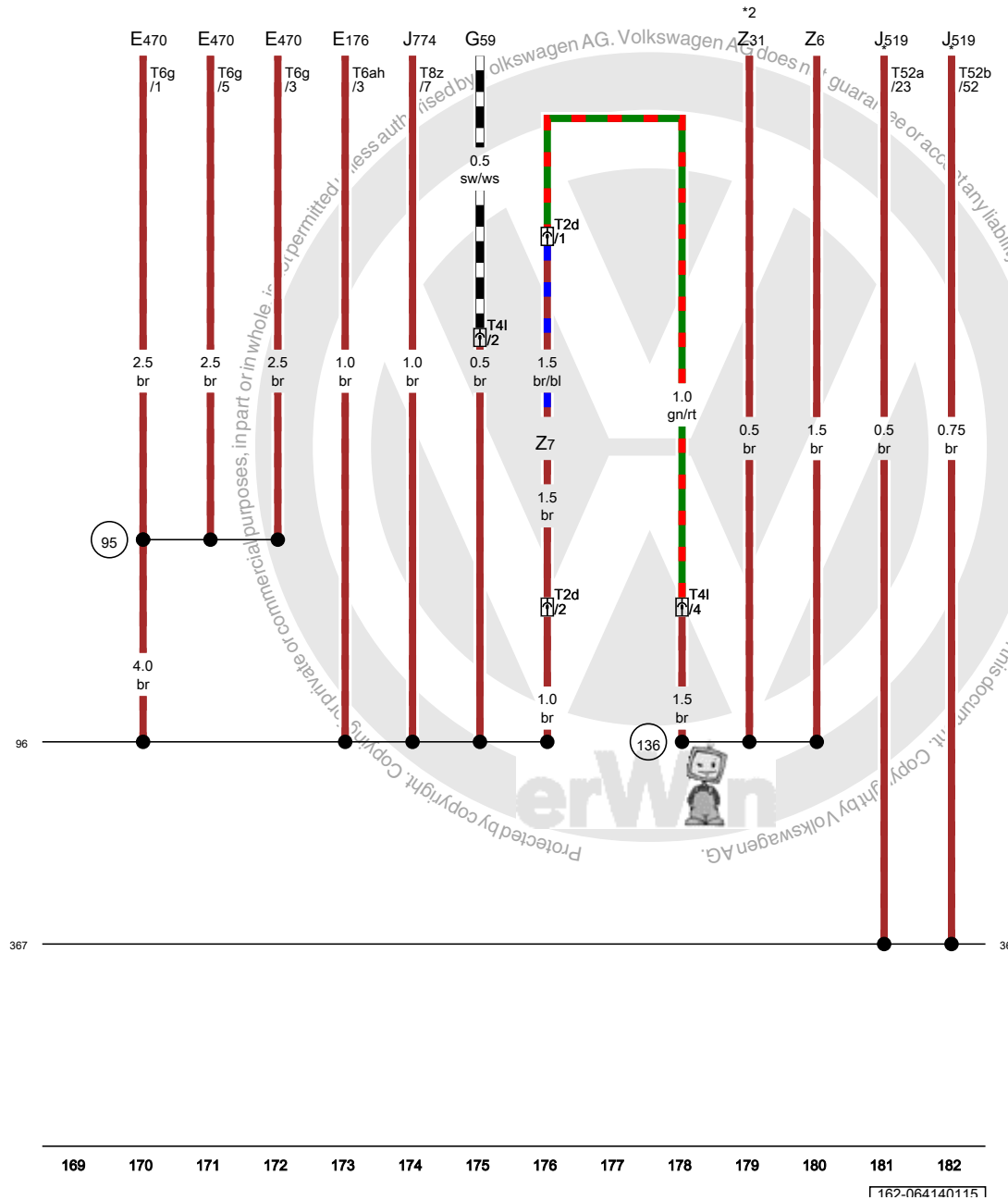
Ground connection 1 (in heated seats wiring harness),
Ground connection (in exterior mirror wiring harness),
Ground connection (in driver door wiring harness), Ground
connection 2 (in main wiring harness), Ground connection
21 (in main wiring harness)

- E43 Mirror adjusting switch
- E52 Left rear power window switch in left rear door
- E233 Rear lid remote release button
- E319 Fuel filler door release button
- J386 Driver door control module
- J388 Left rear door control module
- L131 Driver exterior rearview mirror turn signal bulb
- T4ac 4-pin connector
- T4aq 4-pin connector
- T4w 4-pin connector
- T8f 8-pin connector
- T8s 8-pin connector
- T12b 12-pin connector, in the driver door
- T16a 16-pin connector
- T16h 16-pin connector
- T20a 20-pin connector
- T28b 28-pin connector, on the left B-pillar
- T32a 32-pin connector
- VX21 Driver door lock unit
- VX23 Left rear door lock unit
- Z4 Heated driver exterior rearview mirror

- 96 Ground connection 1 (in heated seats wiring harness)
- 107 Ground connection (in exterior mirror wiring harness), in the left door, near the exterior rearview mirror
- 205 Ground connection (in driver door wiring harness)
- 207 Ground connection (in left rear door wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 386 Ground connection 21 (in main wiring harness)

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bl = blue
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li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

*2 only for vehicles with Low equipment (AW0)
*3 only for vehicles with High equipment (AW1)
USA only



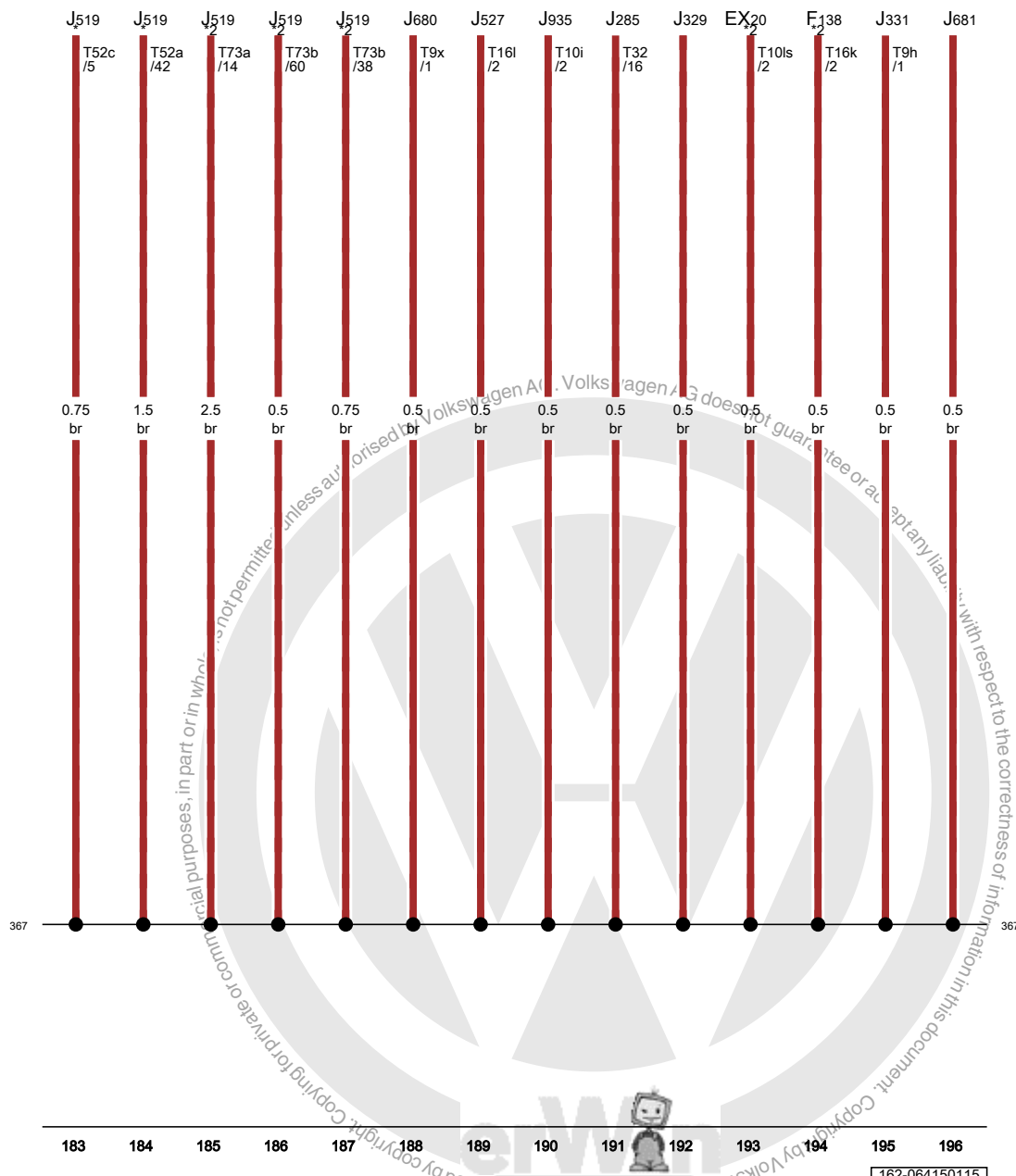
Ground connection 1 (in seat adjustment wiring harness),
Ground connection 1 (in heated seats wiring harness),
Ground connection 2 (in main wiring harness)

- E176 Driver seat lumbar support adjustment switch
- E470 Driver seat adjustment control head
- G59 Heated driver seat temperature sensor
- J519 Vehicle electrical system control module
- J774 Front seat heating control module
- T2d 2-pin connector, in the driver seat
- T4l 4-pin connector, in the driver seat
- T6ah 6-pin connector
- T6g 6-pin connector
- T8z 8-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- Z6 Driver seat heating element
- Z7 Driver backrest heating element
- Z31 Driver seat bolster heater

- 95 Ground connection 1 (in seat adjustment wiring harness)
- 96 Ground connection 1 (in heated seats wiring harness)
- 136 Ground connection 2 (in heated seats wiring harness)
- 367 Ground connection 2 (in main wiring harness)

* only for vehicles with High equipment (AW1)
*2 Omitted as a running change

Ground connection 2 (in main wiring harness)



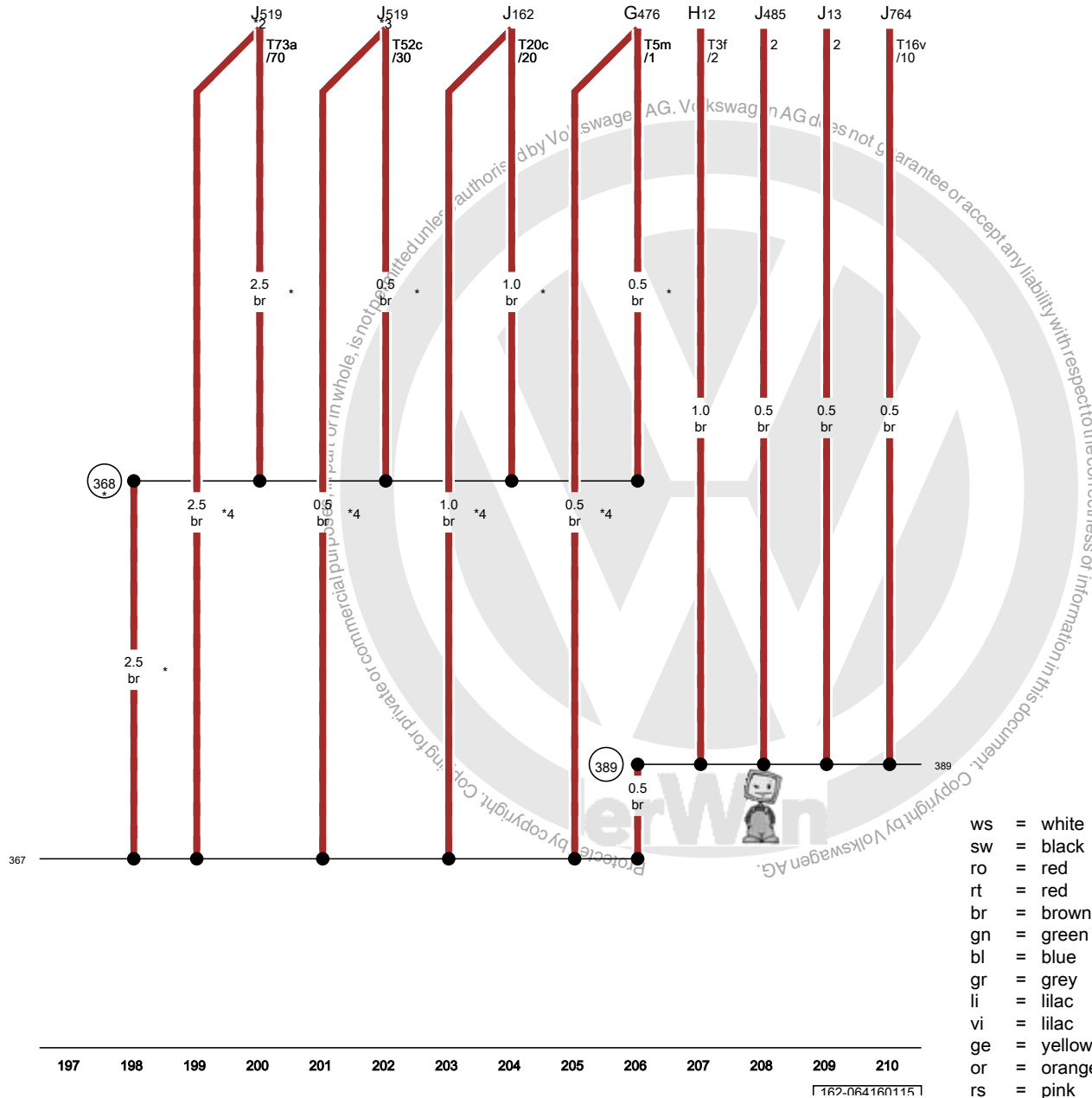
- EX20 Right steering column switch
- F138 Airbag spiral spring/return spring with slip ring
- J285 Instrument cluster control module
- J329 Terminal 15 power supply relay
- J331 Low beam relay
- J519 Vehicle electrical system control module
- J527 Steering column electronics control module
- J680 Terminal 75 power supply relay 1
- J681 Terminal 15 power supply relay 2
- J935 Converter box
- T9h 9-pin connector
- T9x 9-pin connector
- T10i 10-pin connector
- T10ls 10-pin connector
- T16k 16-pin connector
- T16l 16-pin connector
- T32 32-pin connector
- T52a 52-pin connector
- T52c 52-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

367 Ground connection 2 (in main wiring harness)

- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)

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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Ground connection 2 (in main wiring harness), Ground connection 3 (in main wiring harness), Ground connection 24 (in main wiring harness)

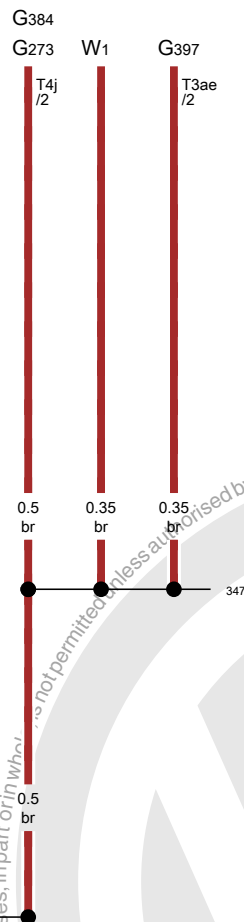
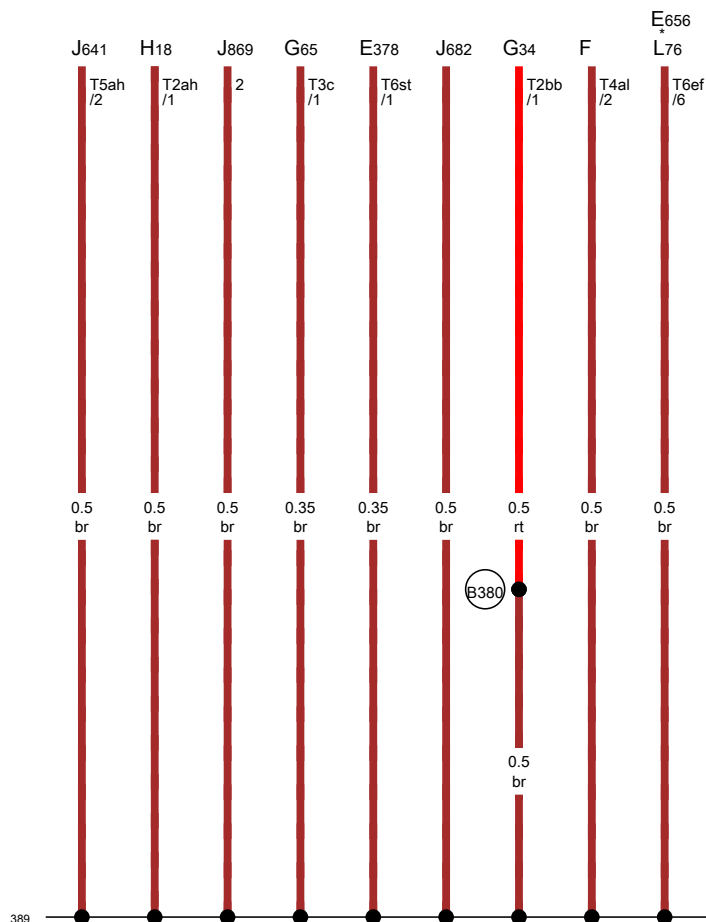


- G476 Clutch position sensor
- H12 Alarm horn
- J13 Fresh air blower relay
- J162 Heater control module
- J485 Parking heater operation relay
- J519 Vehicle electrical system control module
- J764 Electronic steering column lock control module
- T3f 3-pin connector
- T5m 5-pin connector
- T16v 16-pin connector
- T20c 20-pin connector
- T52c 52-pin connector
- T73a 73-pin connector

- 367 Ground connection 2 (in main wiring harness)
- 368 Ground connection 3 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)

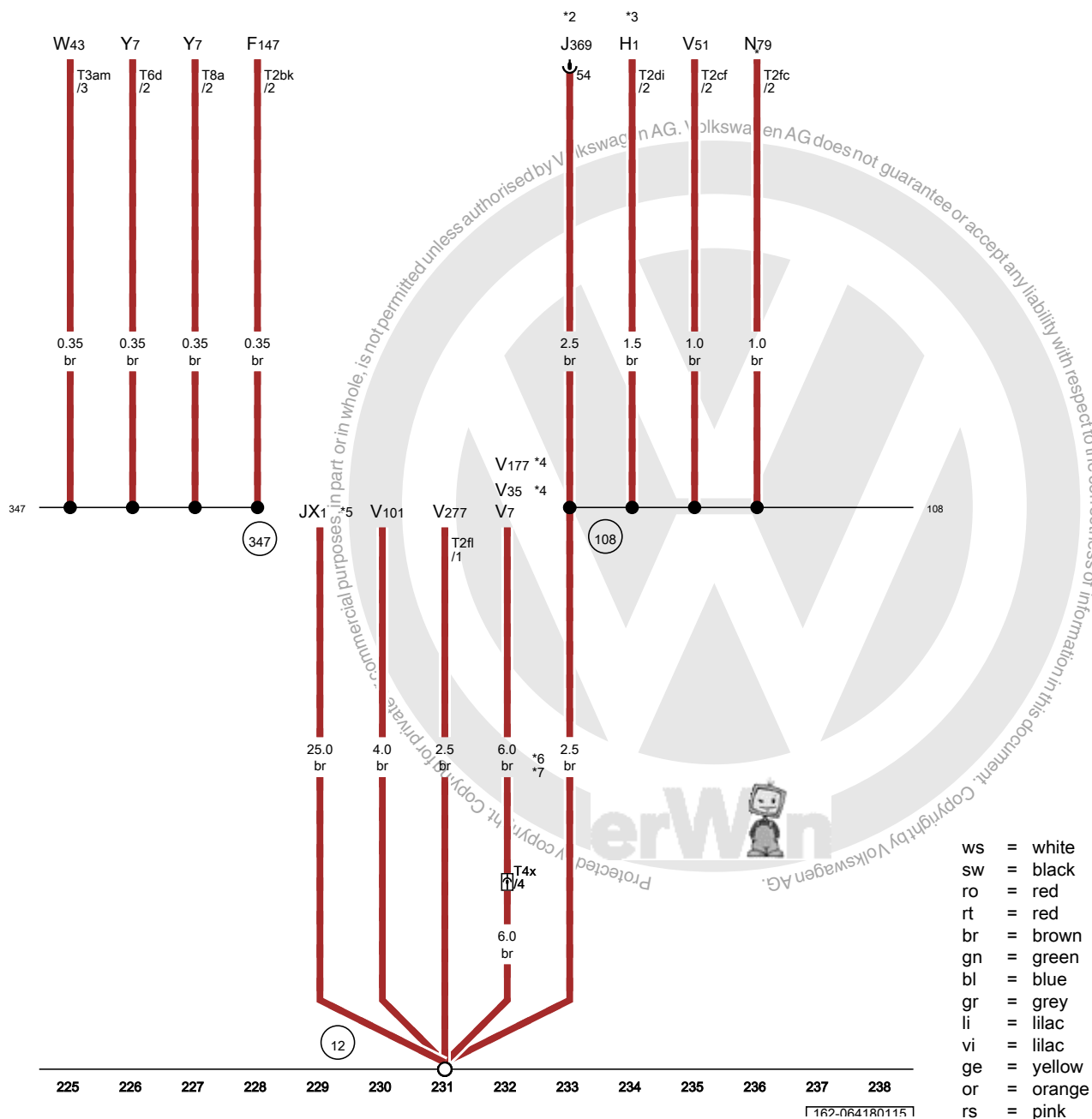
- * Omitted as a running change
- *2 only for vehicles with Low equipment (AW0)
- *3 only for vehicles with High equipment (AW1)
- *4 Running change

Ground connection (in roof wiring harness), Ground connection 24 (in main wiring harness)



- E378 Start system button
- E656 Electric drive button
- F Brake lamp switch
- G34 Left front brake pad wear sensor
- G65 High pressure sensor
- G273 Interior monitoring sensor
- G384 Vehicle inclination sensor
- G397 Rain/light recognition sensor
- H18 Alarm system horn
- J641 Alarm horn relay
- J682 Terminal 50 power supply relay
- J869 Structure borne sound control module
- L76 Push button illumination bulb
- T2ah 2-pin connector
- T2bb 2-pin connector
- T3ae 3-pin connector
- T3c 3-pin connector
- T4al 4-pin connector
- T4j 4-pin connector
- T5ah 5-pin connector
- T6ef 6-pin connector
- T6st 6-pin connector
- W1 Front interior lamp
- 347 Ground connection (in roof wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- B380 Brake wear indicator connection 2 (in main wiring harness)
- * only for vehicles with hybrid drive

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

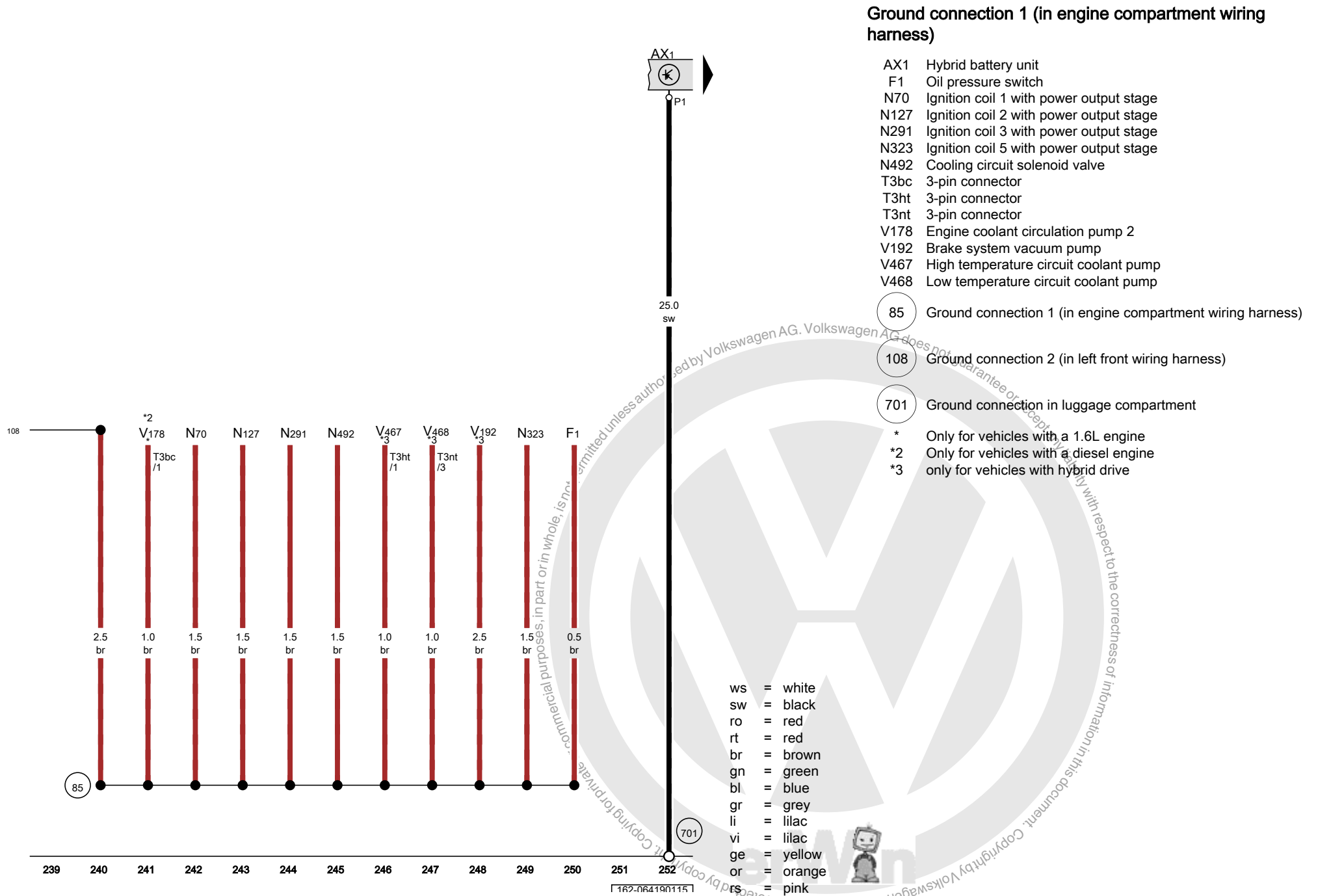


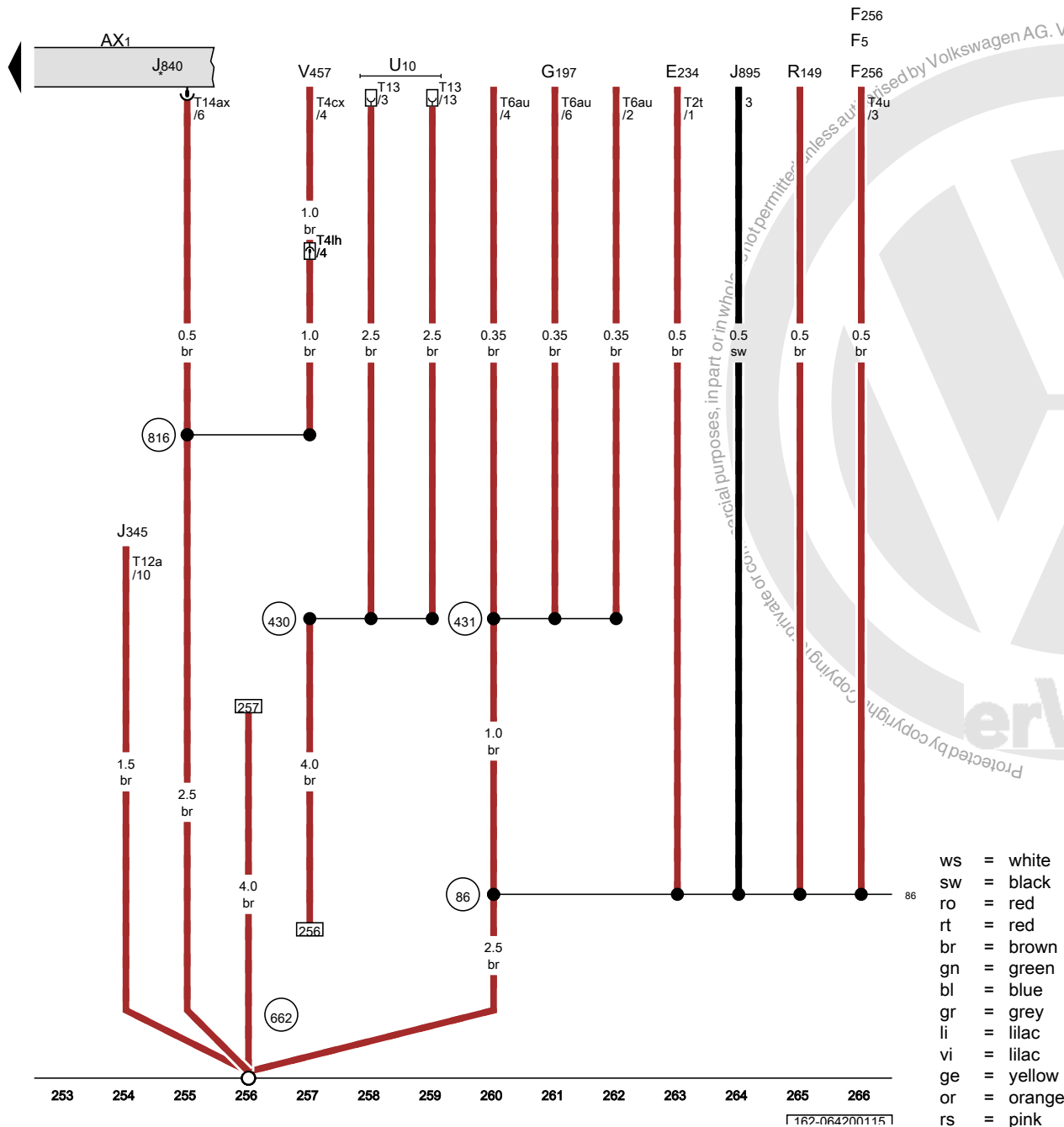
Ground connection in engine compartment, left, Ground connection (in roof wiring harness)

- F147 Driver vanity mirror lamp contact switch
- H1 Signal horn and dual tone horn
- JX1 Electric drive power and control electronics
- J369 Wiper motor relay 2, in the engine compartment E-box
- N79 Positive crankcase ventilation heating element
- T2bk 2-pin connector
- T2cf 2-pin connector
- T2di 2-pin connector
- T2fc 2-pin connector
- T2fl 2-pin connector
- T3am 3-pin connector
- T4x 4-pin connector, near the coolant fan
- T6d 6-pin connector
- T8a 8-pin connector
- V7 Radiator fan
- V35 Right radiator fan
- V51 After-run coolant pump
- V101 Secondary air injection pump motor
- V177 Radiator fan 2
- V277 Fuel pump 2
- W43 Rear interior lamp
- Y7 Automatic dimming interior rearview mirror

- 12 Ground connection in engine compartment, left
- 108 Ground connection 2 (in left front wiring harness)
- 347 Ground connection (in roof wiring harness)

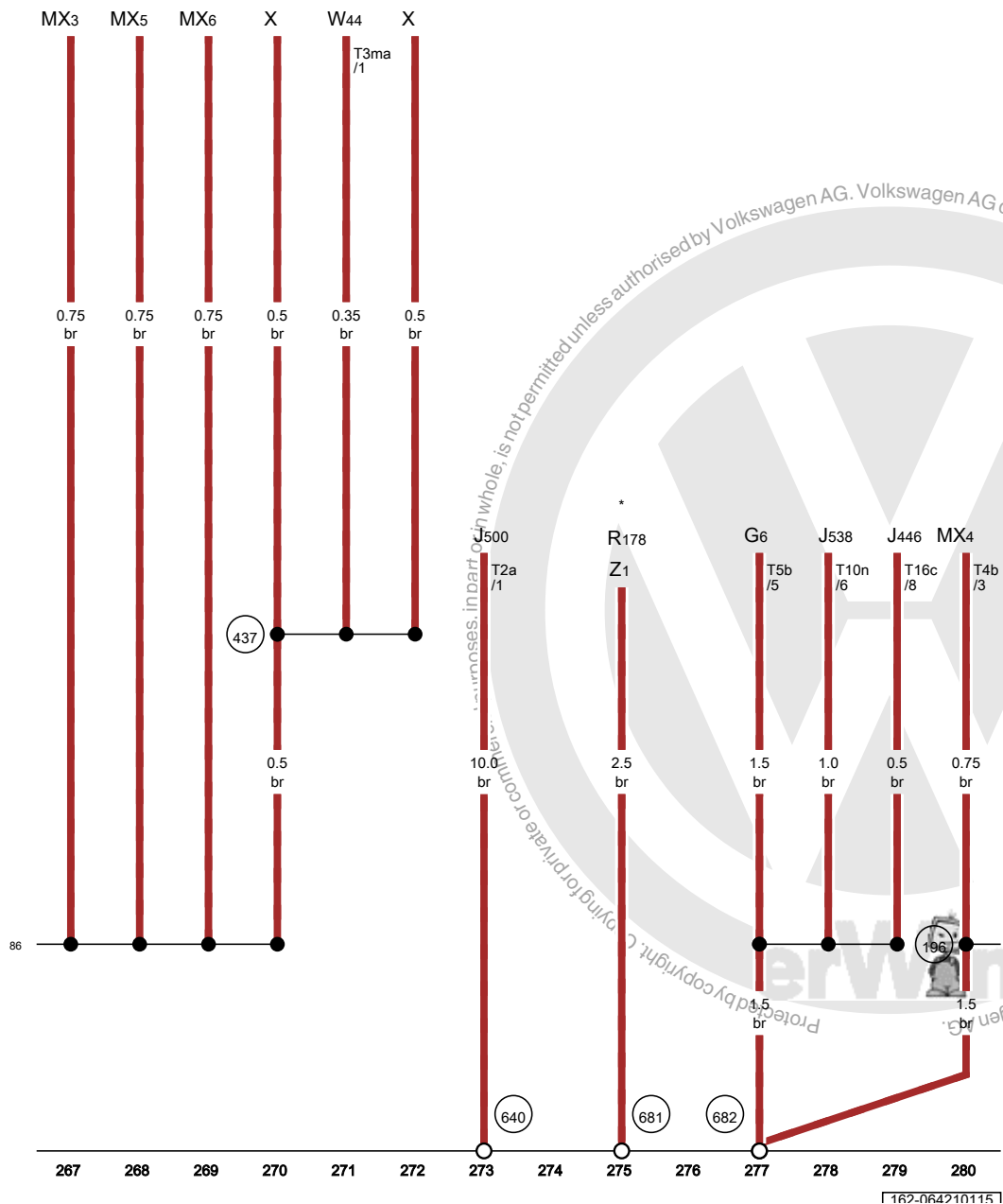
- * Refer to applicable engine wiring diagram
- *2 only for vehicles with High equipment (AW1)
- *3 Only for vehicles with dual tone horn
- *4 Only for vehicles with two radiator fans
- *5 only for vehicles with hybrid drive
- *6 Diameter depends on equipment
- *7 4.0 diameter possible





Ground connection 1 (in rear wiring harness), Ground connection in left rear side panel, Ground connection 1 in Hybrid System wiring harness

- AX1 Hybrid battery unit
- E234 Release button in rear lid handle
- F5 Luggage compartment lamp switch
- F256 Rear lid lock unit
- G197 Compass magnetic field sensor
- J345 Towing recognition control module
- J840 Battery regulation control module
- J895 Vehicle positioning system control module
- R149 Auxiliary coolant heater radio frequency receiver
- T2t 2-pin connector
- T4cx 4-pin connector
- T4lh 4-pin connector
- T4u 4-pin connector
- T6au 6-pin connector
- T12a 12-pin connector
- T13 122-pin connector
- T14ax 14-pin connector
- U10 Trailer socket
- V457 Battery fan 1
- 86 Ground connection 1 (in rear wiring harness)
- 430 Ground connection in trailer hitch wiring harness
- 431 Ground connection 2 (in roof wiring harness)
- 662 Ground connection in left rear side panel
- 816 Ground connection 1 in Hybrid System wiring harness
- * only for vehicles with hybrid drive



Ground connection 1 (in rear wiring harness), Ground connection 2 (in rear wiring harness), Ground connection (in license plate lamp wiring harness), Ground connection 2 in engine compartment, left, Ground connection 1 in right rear side panel, Ground connection 2 in right rear side panel

- G6 Transfer fuel pump
- J446 Parking aid control module
- J500 Power steering control module
- J538 Fuel pump control module
- MX3 Left tail lamp
- MX4 Right tail lamp
- MX5 Left tail lamp 2
- MX6 Right tail lamp 2
- R178 FM frequency filter in negative wire
- T2a 2-pin connector
- T3ma 3-pin connector
- T4b 4-pin connector
- T5b 5-pin connector
- T10n 10-pin connector
- T16c 16-pin connector
- W44 Rear center reading lamp
- X License plate lamp
- Z1 Rear window defogger

- 86 Ground connection 1 (in rear wiring harness)
- 87 Ground connection 2 (in rear wiring harness)
- 196 Ground connection 3 (in rear wiring harness)
- 437 Ground connection (in license plate lamp wiring harness)
- 640 Ground connection 2 in engine compartment, left
- 681 Ground connection 1 in right rear side panel
- 682 Ground connection 2 in right rear side panel

* If available

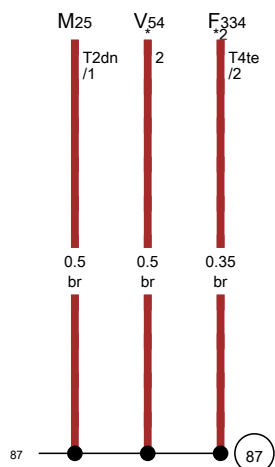
- ws = white
- sw = black
- ro = red
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- br = brown
- gn = green
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- gr = grey
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- or = orange
- rs = pink

Ground connection 2 (in rear wiring harness)

- F334 Fuel filler detection switch
- M25 High-mounted brake lamp bulb
- T2dn 2-pin connector
- T4te 4-pin connector
- V54 Metering pump

87 Ground connection 2 (in rear wiring harness)

- * Only for vehicles with auxiliary coolant heater
- *2 only for vehicles with hybrid drive



281 282 283 284 285 286 287 288 289 290 291 292 293 294

162-0642201151

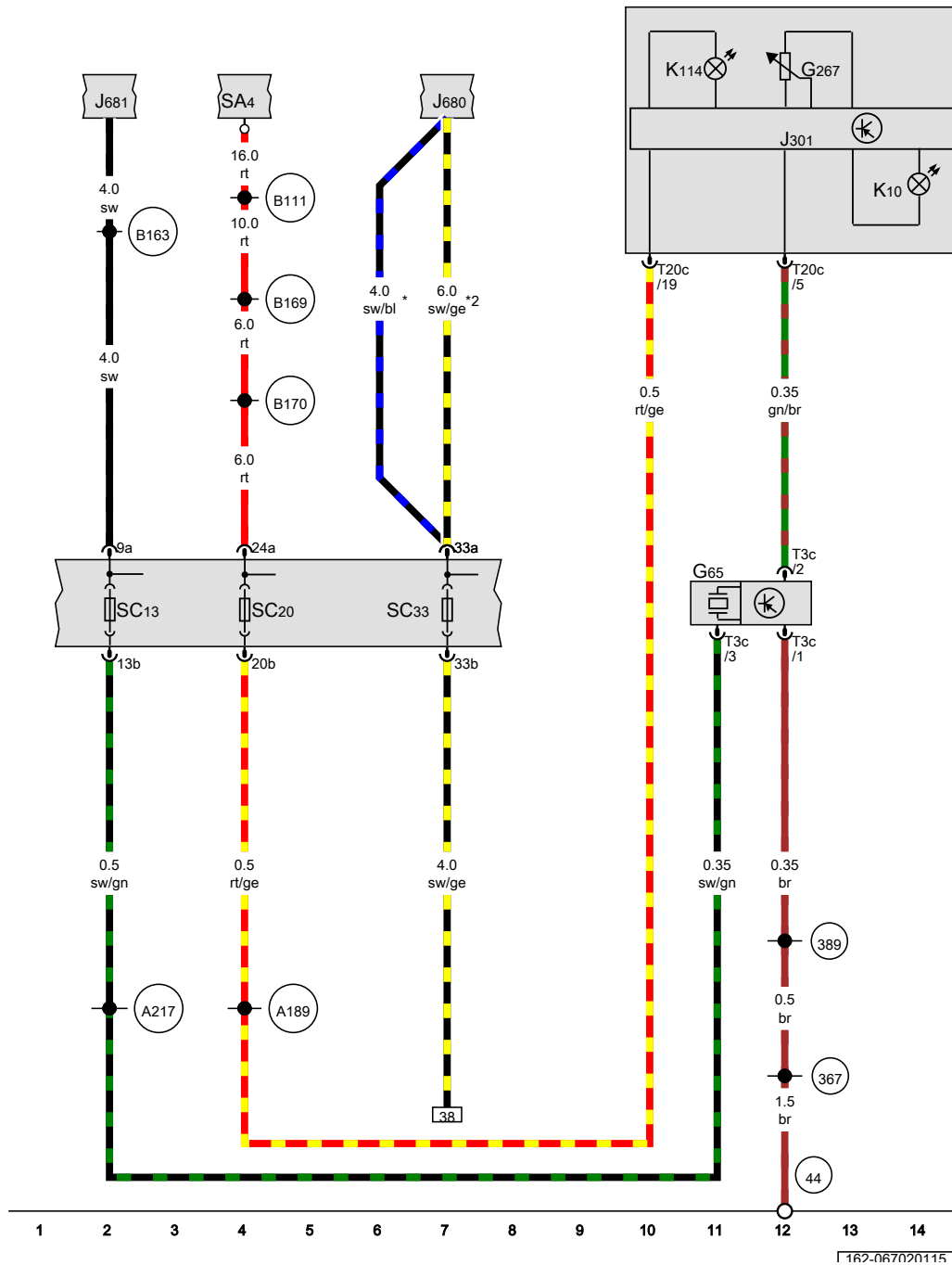
- ws = white
- sw = black
- ro = red
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- vi = lilac
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- or = orange
- rs = pink

A/C system with manual control , (9AB)

from April 2010



High pressure sensor, A/C control module



- G65 High pressure sensor
- G267 Temperature selector knob potentiometer
- J301 A/C control module
- J680 Terminal 75 power supply relay 1
- J681 Terminal 15 power supply relay 2
- K10 Rear window defogger indicator lamp
- K114 Fresh air and recirculation mode indicator lamp
- SA4 Fuse 4 (on fuse panel A)
- SC13 Fuse 13 (on fuse panel C)
- SC20 Fuse 20 (on fuse panel C)
- SC33 Fuse 33 (on fuse panel C)
- T3c 3-pin connector
- T9f 9-pin connector
- T9x 9-pin connector
- T20c 20-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- A189 Positive connection 5 (30a) (in instrument panel wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)

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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

* Through June 2012
*2 from July 2012

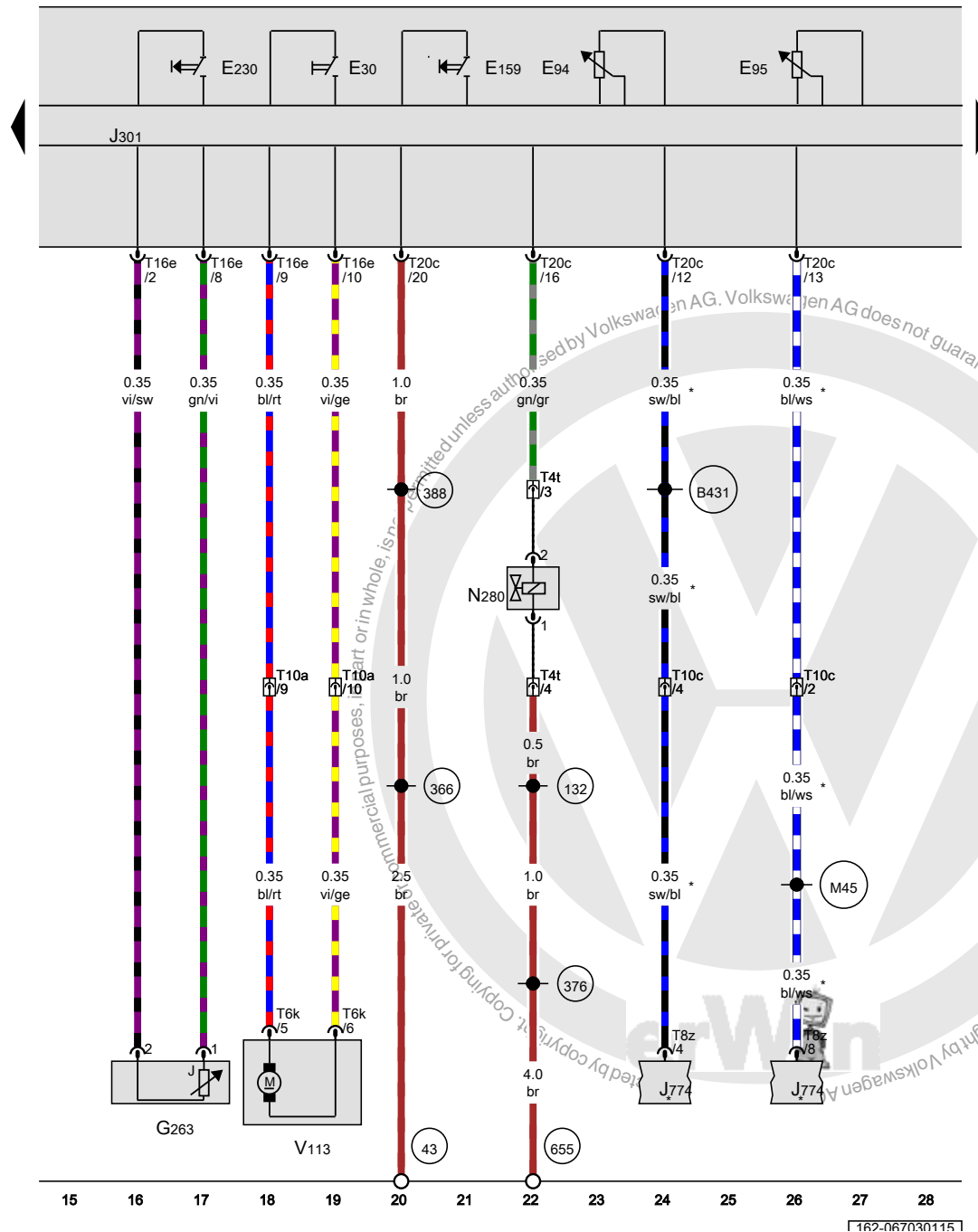


A/C control module, A/C compressor regulator valve

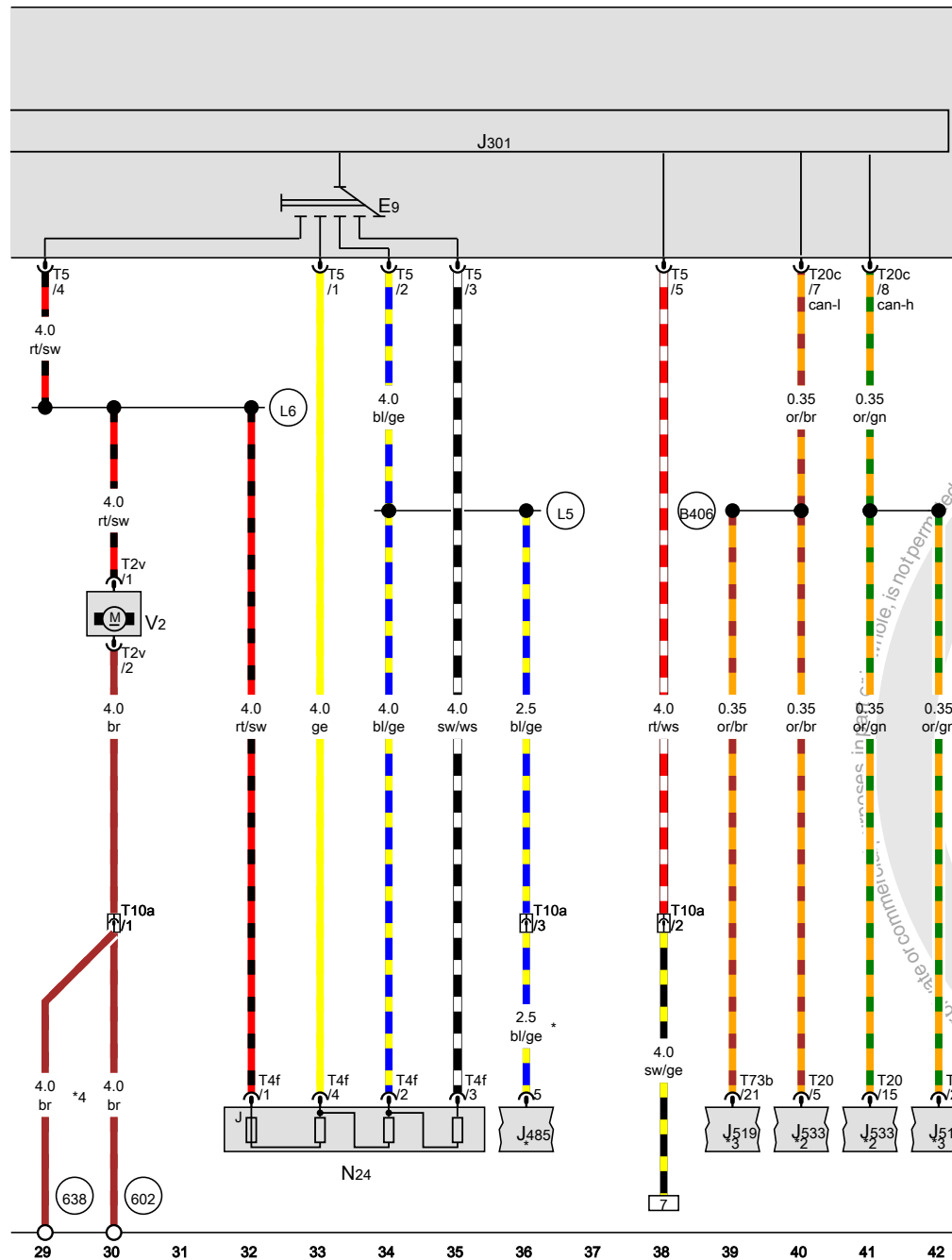
- E30 A/C switch
- E94 Heated driver seat adjuster
- E95 Heated front passenger seat adjuster
- E159 Fresh air/recirculation door switch
- E230 Rear window defogger button
- G263 Evaporator vent temperature sensor
- J301 A/C control module
- J774 Front seat heating control module
- N280 A/C compressor regulator valve
- T4t 4-pin connector
- T6k 6-pin connector
- T8z 8-pin connector
- T10a 10-pin connector, on the heater
- T10c 10-pin connector, under the driver seat
- T16e 16-pin connector
- T20c 20-pin connector
- V113 Recirculation door motor

- 43 Ground connection on A-pillar, lower right
- 132 Ground connection 3 (in engine compartment wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 655 Ground connection on left headlamp
- B431 Seat heating connection (in main wiring harness)
- M45 Connection 5 (in driver seat wiring harness)
- * Only for vehicles with an auxiliary heater

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 ro = red
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Fresh air blower switch, A/C control module, Fresh air blower series resistor with fuse, Fresh air blower



- E9 Fresh air blower switch
- J301 A/C control module
- J485 Parking heater operation relay
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- N24 Fresh air blower series resistor with fuse
- T2v 2-pin connector
- T4f 4-pin connector
- T5 5-pin connector
- T10a 10-pin connector, on the heater
- T20 20-pin connector
- T20c 20-pin connector
- T73b 73-pin connector
- V2 Fresh air blower

- 602 Ground connection in left front footwell
- 638 Ground connection on right A-pillar
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- L5 Connection 1 (in A/C unit wiring harness)
- L6 Connection 2 (in A/C unit wiring harness)
- * Only for vehicles with auxiliary coolant heater
- *2 only for vehicles with High equipment (AW1)
- *3 only for vehicles with Low equipment (AW0)
- *4 Only for right-hand drive vehicles

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Heating with manual control , (9AA)

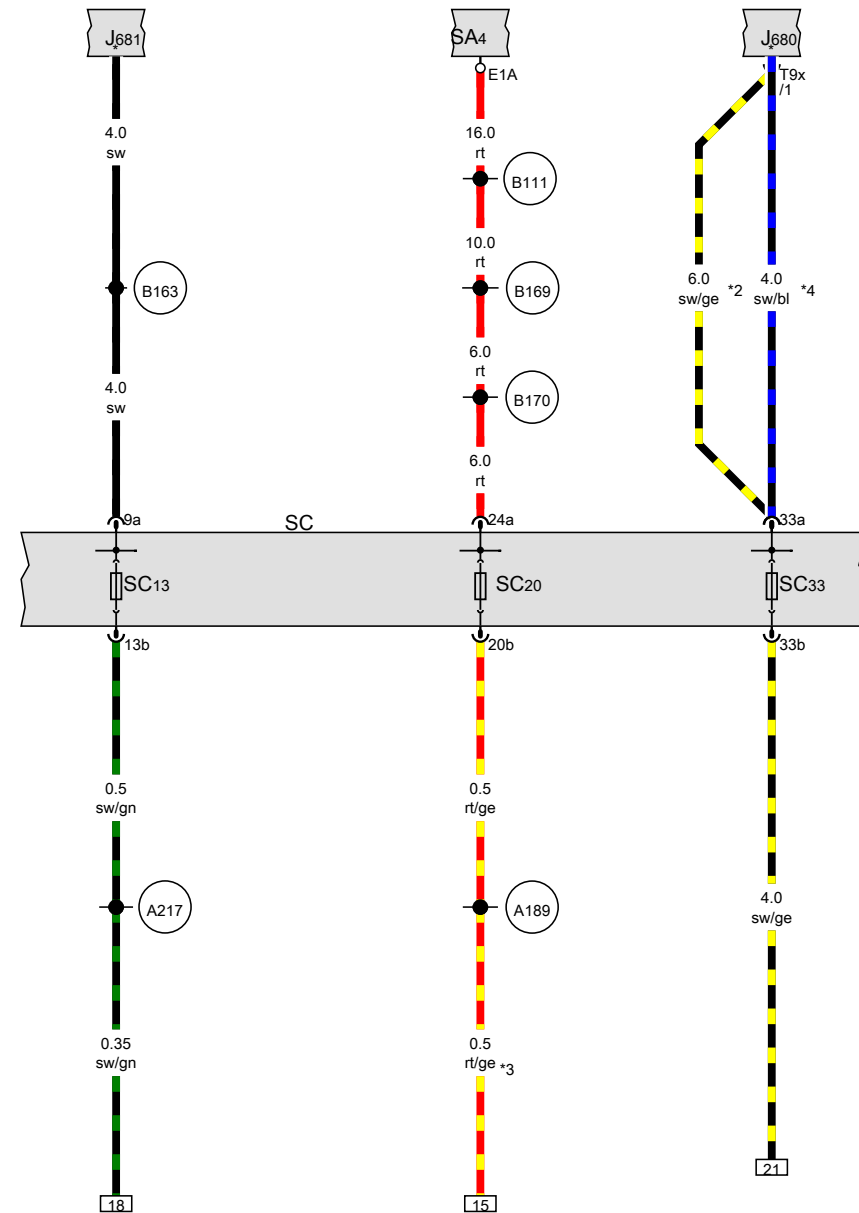
From June 2010



Fuse 4 (on fuse panel A), Fuse panel C

- J680 Terminal 75 power supply relay 1
- J681 Terminal 15 power supply relay 2
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC13 Fuse 13 (on fuse panel C)
- SC20 Fuse 20 (on fuse panel C)
- SC33 Fuse 33 (on fuse panel C)
- T1 1-pin connector
- T9x 9-pin connector

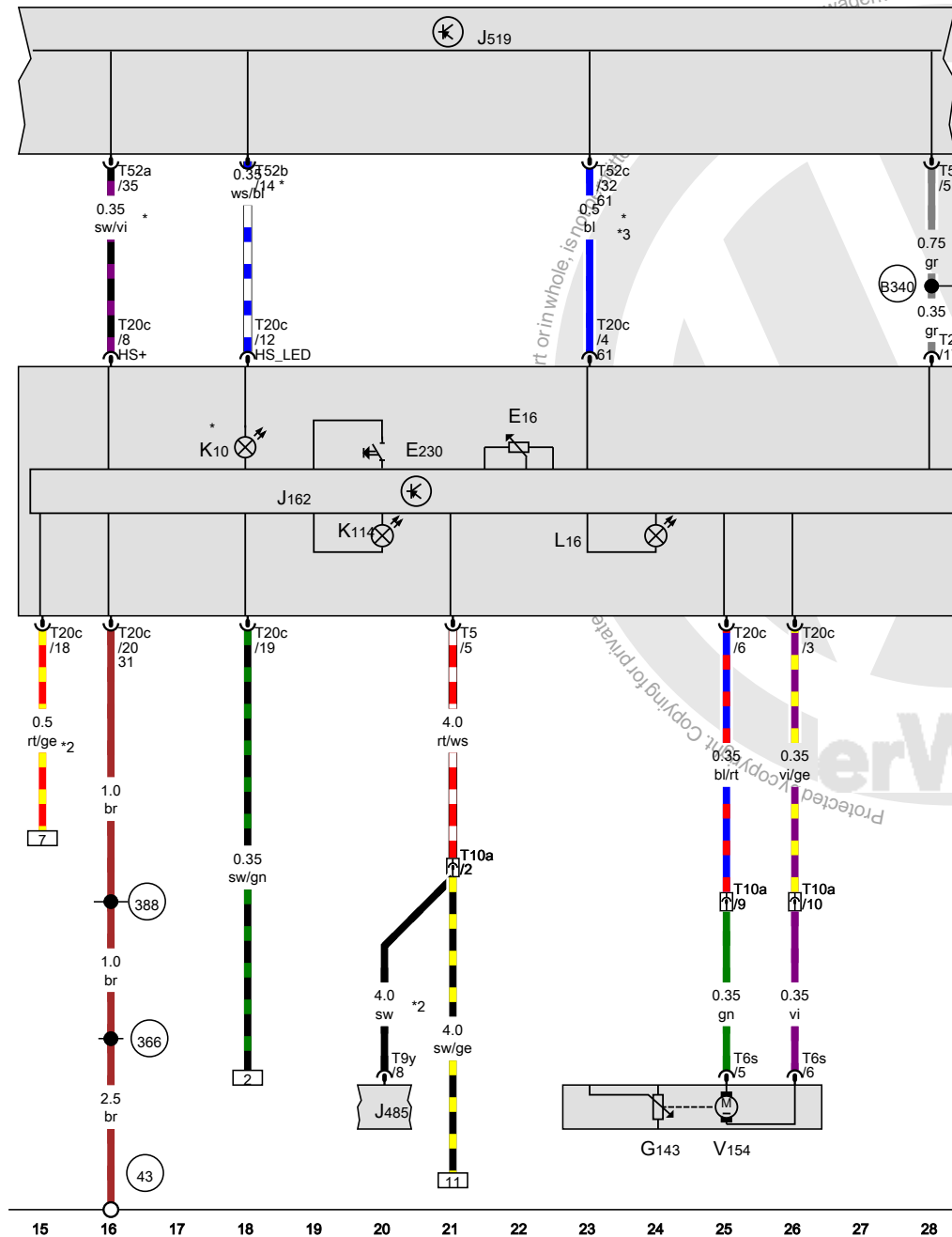
- A189 Positive connection 5 (30a) (in instrument panel wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- * Refer to applicable standard equipment wiring diagram
- *2 from July 2012
- *3 Only for vehicles with auxiliary coolant heater
- *4 Through June 2012



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162-068020115

Heater control module, Vehicle electrical system control module, Fresh/recirculated air door motor



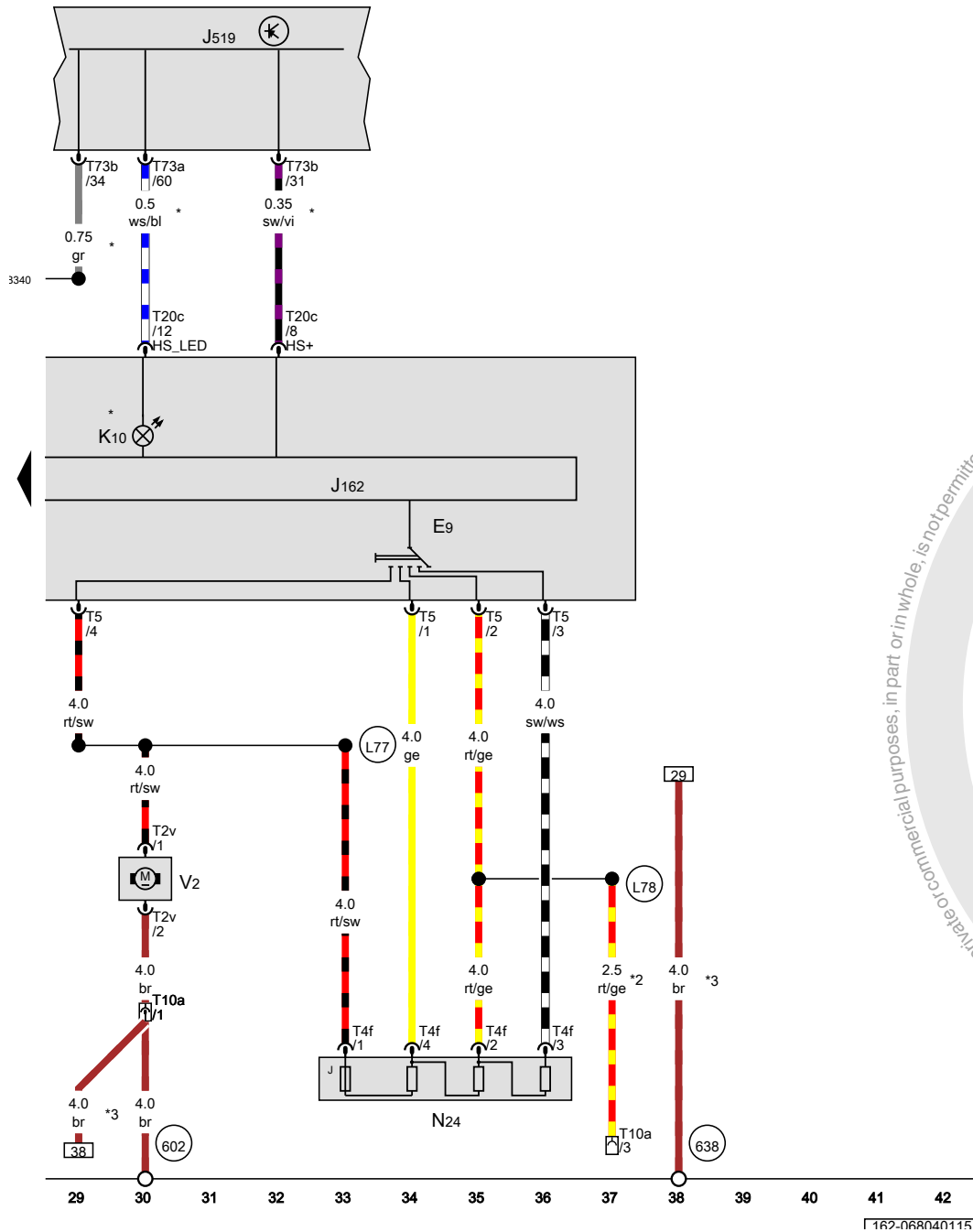
- E16 Heater/heat output switch
- E230 Rear window defogger button
- G143 Recirculation door motor position sensor
- J162 Heater control module
- J485 Parking heater operation relay
- J519 Vehicle electrical system control module
- K10 Rear window defogger indicator lamp
- K114 Fresh air and recirculation mode indicator lamp
- L16 Fresh air control illumination bulb
- T5 5-pin connector
- T6s 6-pin connector
- T9y 9-pin connector
- T10a 10-pin connector
- T20c 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V154 Fresh/recirculated air door motor

- 43 Ground connection on A-pillar, lower right
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- B340 Connection 58d (in main wiring harness) 1

- * only for vehicles with High equipment (AW1)
- *2 Only for vehicles with auxiliary coolant heater
- *3 Only for vehicles with Start/Stop system

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- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-068030115



Fresh air blower switch, Heater control module, Vehicle electrical system control module, Fresh air blower series resistor with fuse, Fresh air blower

- E9 Fresh air blower switch
- J162 Heater control module
- J519 Vehicle electrical system control module
- K10 Rear window defogger indicator lamp
- N24 Fresh air blower series resistor with fuse
- T2v 2-pin connector
- T4f 4-pin connector
- T5 5-pin connector
- T10a 10-pin connector, on the heating and A/C unit
- T20c 20-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- V2 Fresh air blower

- 602 Ground connection in left front footwell
- 638 Ground connection on right A-pillar
- B340 Connection 58d (in main wiring harness)
- L77 Connection (in fresh air blower wiring harness)
- L78 Connection 1 (in fresh air blower wiring harness)

- * only for vehicles with Low equipment (AW0)
- *2 Only for vehicles with auxiliary coolant heater
- *3 Only for right-hand drive vehicles

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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
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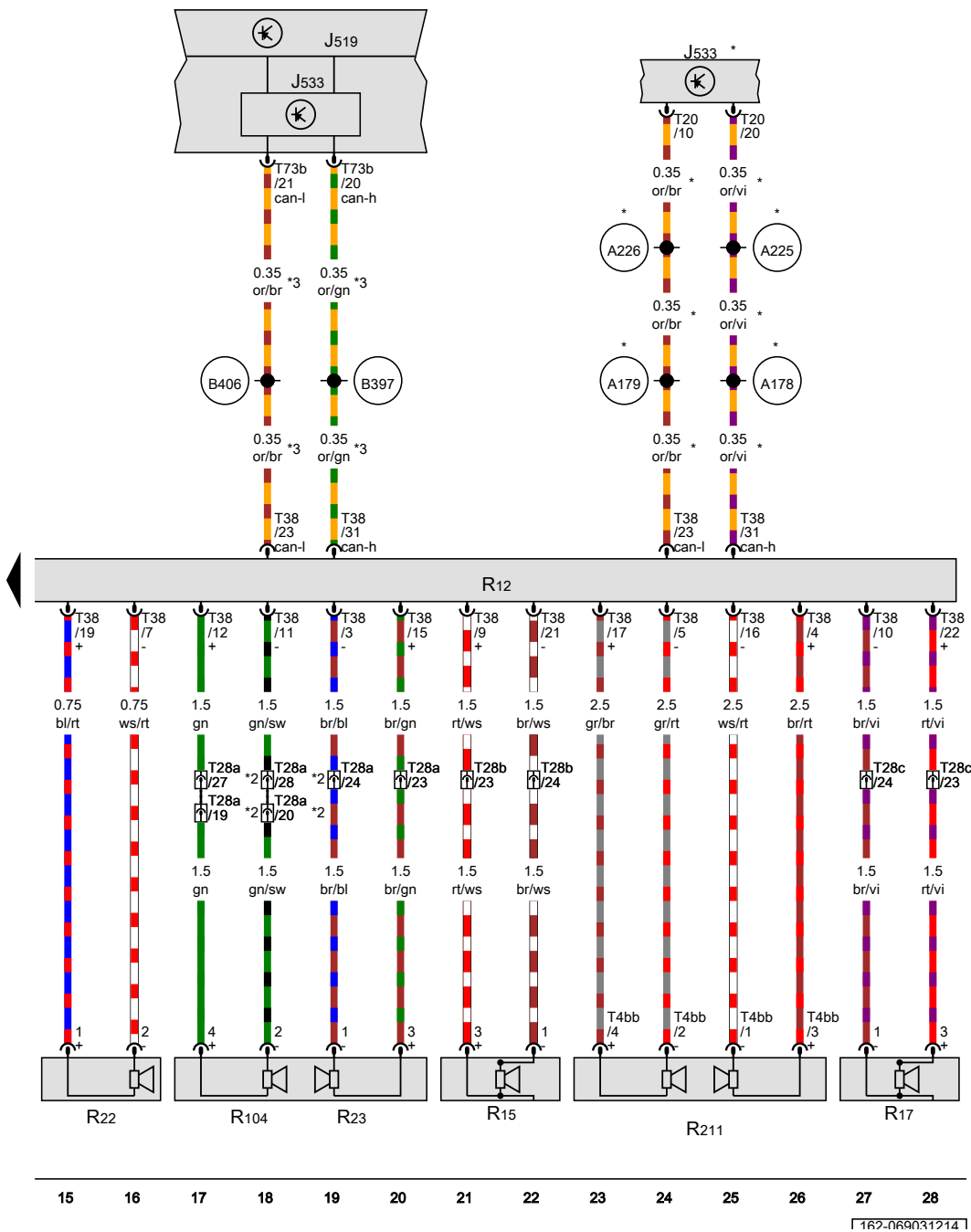
Sound system "Volkswagen Sound" , (8RB),(8RU)

from June 2011





ws = white
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br = brown
gn = green
bl = blue
gr = grey
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vi = lilac
ge = yellow
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Vehicle electrical control module system, Data bus on board diagnostic interface, Amplifier, Left rear bass speaker, Right rear bass speaker, Right front treble speaker, Right front bass speaker, Right front midrange speaker, Subwoofer

- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- R12 Amplifier
- R15 Left rear bass speaker
- R17 Right rear bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- R104 Right front midrange speaker
- R211 Subwoofer
- T4bb 4-pin connector
- T20 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T28b 28-pin connector, on the left B-pillar
- T28c 28-pin connector, on the right B-pillar
- T38 38-pin connector
- T73b 73-pin connector

- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

- * only for vehicles with High equipment (AW1)
- *2 Depending on equipment
- *3 only for vehicles with Low equipment (AW0)

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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
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- or = orange
- rs = pink

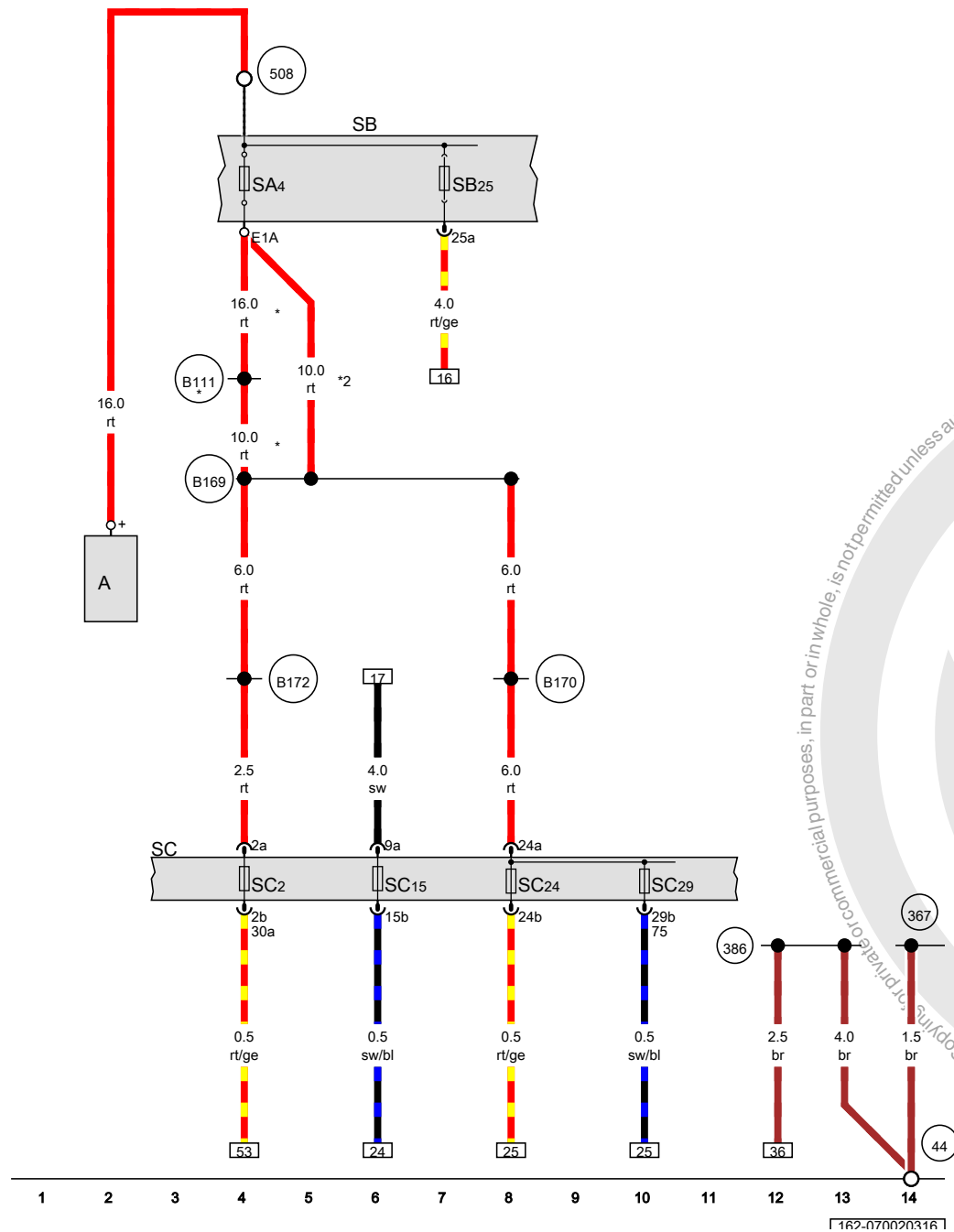
Keyless access/locking and starting system , (AW0)

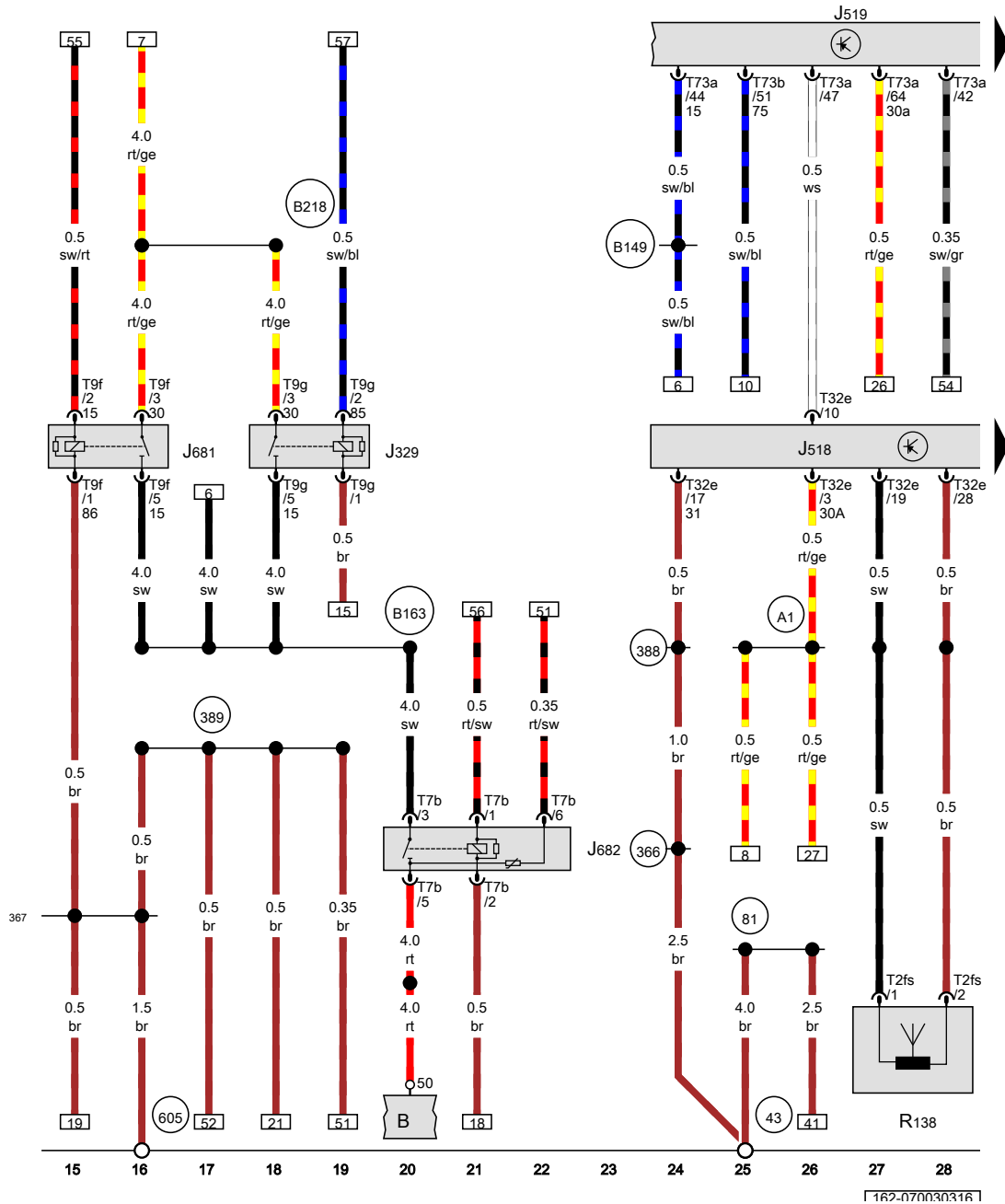
from June 2011



Fuse panel B, Fuse panel C

- A Battery
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- SC Fuse panel C
- SC2 Fuse 2 (on fuse panel C)
- SC15 Fuse 15 (on fuse panel C)
- SC24 Fuse 24 (on fuse panel C)
- SB25 Fuse 25 (on fuse panel B)
- SC29 Fuse 29 (on fuse panel C)
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- * Omitted as a running change
- *2 Running change

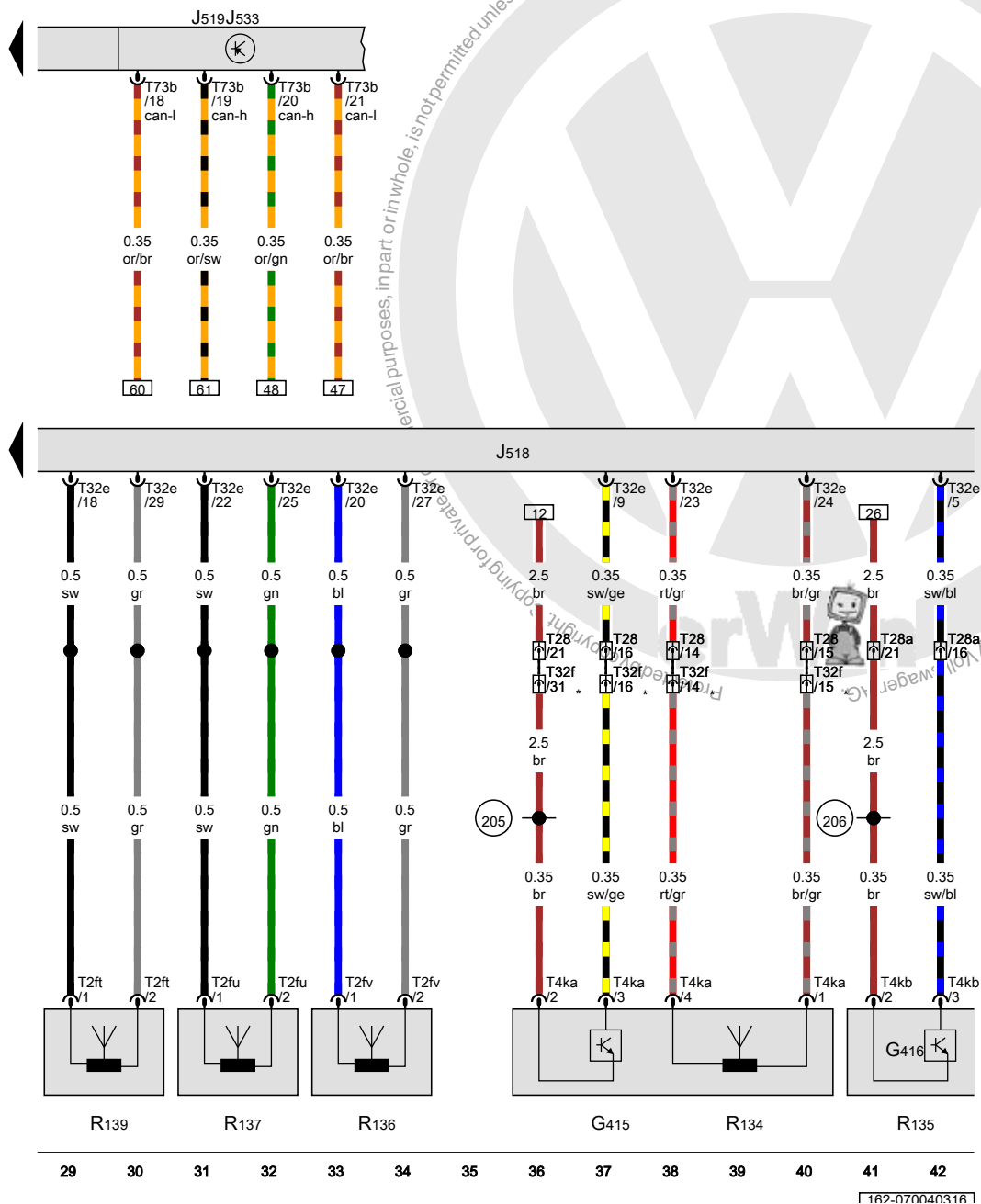




Access/start authorization control module, Vehicle electrical system control module, Terminal 15 power supply relay 2, Terminal 50 power supply relay, Access/start system antenna 1 in vehicle interior

- B Starter
- J329 Terminal 15 power supply relay
- J518 Access/start authorization control module
- J519 Vehicle electrical system control module
- J681 Terminal 15 power supply relay 2
- J682 Terminal 50 power supply relay
- R138 Access/start system antenna 1 in vehicle interior, under the center console
- T2fs 2-pin connector
- T7b 7-pin connector
- T9f 9-pin connector
- T9g 9-pin connector
- T32e 32-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- A1 Positive connection 30a (in instrument panel wiring harness)
- B149 Positive connection 2 (15a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B218 Positive connection 6 (30) (in interior wiring harness)

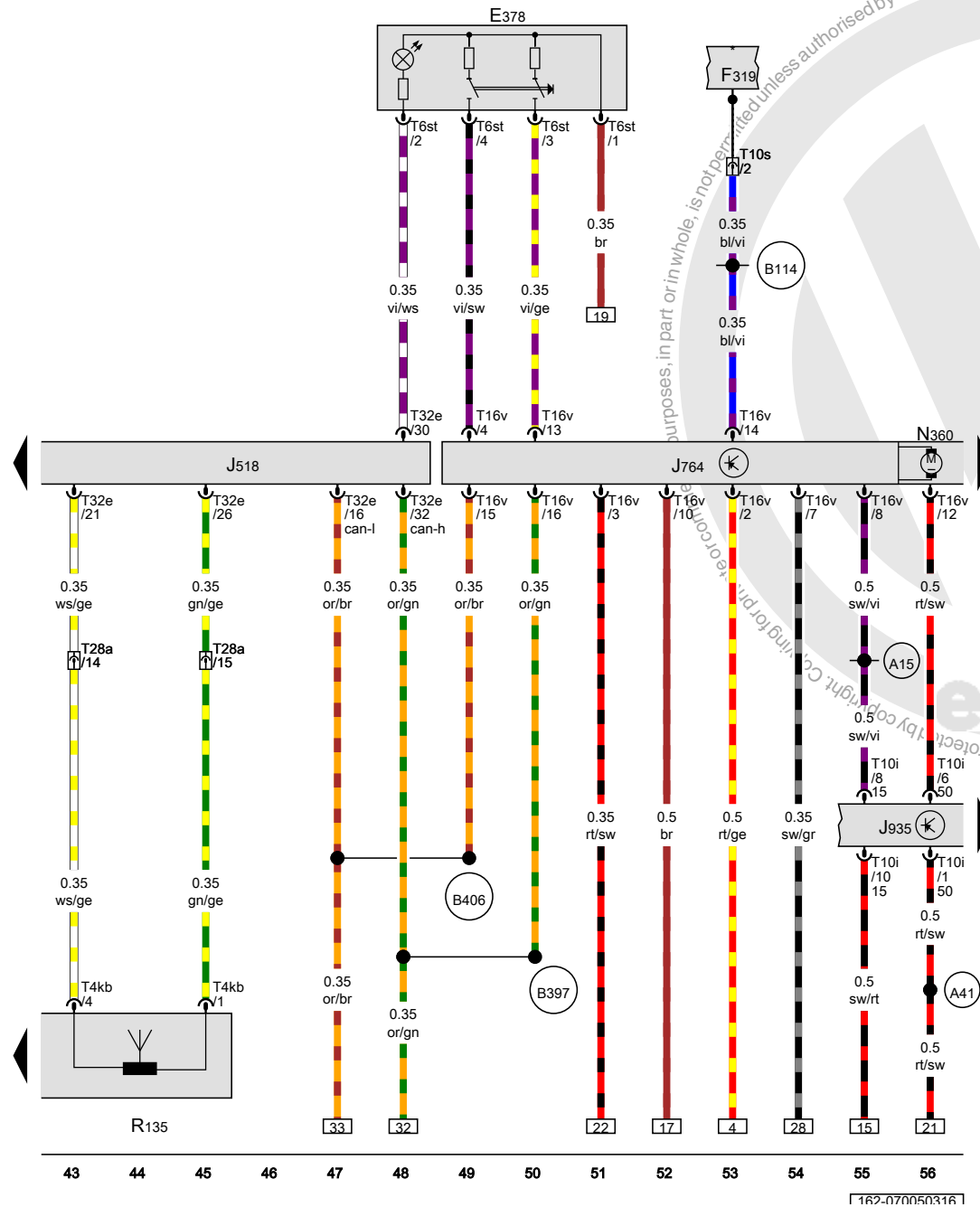
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 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Driver exterior door handle touch sensor, Front passenger exterior door handle touch sensor, Access/start authorization control module, Vehicle electrical system control module, Driver access/start system antenna, Front passenger access/start system antenna, Access/start system antenna in rear bumper, Access/start system antenna in luggage compartment, Access/start system antenna 2 in vehicle interior

- G415 Driver exterior door handle touch sensor
- G416 Front passenger exterior door handle touch sensor
- J518 Access/start authorization control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- R134 Driver access/start system antenna
- R135 Front passenger access/start system antenna
- R136 Access/start system antenna in rear bumper
- R137 Access/start system antenna in luggage compartment
- R139 Access/start system antenna 2 in vehicle interior, in the interior
- T2ft 2-pin connector
- T2fu 2-pin connector
- T2fv 2-pin connector
- T4ka 4-pin connector
- T4kb 4-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T28a 28-pin connector, Right A-pillar, bottom
- T32e 32-pin connector
- T32f 32-pin connector, Left A-pillar, bottom
- T73b 73-pin connector

- 205 Ground connection (in driver door wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- * Only for vehicles with sound system

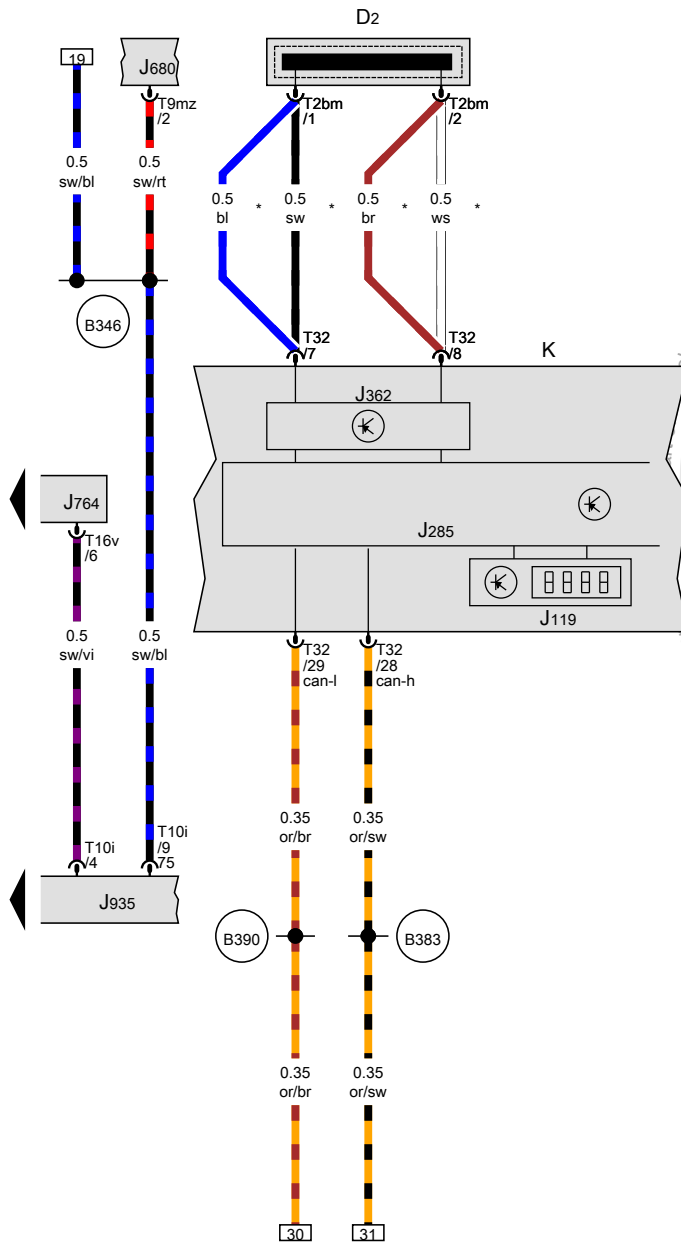


Start system button, Access/start authorization control module, Electronic steering column lock control module, Converter box, Front passenger access/start system antenna

- E378 Start system button
- F319 Selector lever park position lock switch
- J518 Access/start authorization control module
- J764 Electronic steering column lock control module
- J935 Converter box
- N360 Steering column lock actuator
- R135 Front passenger access/start system antenna
- T4kb 4-pin connector
- T6st 6-pin connector
- T10i 10-pin connector
- T10s 10-pin connector
- T16v 16-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T32e 32-pin connector

- A15 Plus connection (15) (in instrument cluster wiring harness)
- A41 Positive connection (50) (in instrument panel wiring harness)
- B114 Lock switch connection (in interior wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- * Only for vehicles with automatic transmission

Anti-theft immobilizer reader coil, Multifunction indicator, Anti-theft immobilizer control module, Electronic steering column lock control module, Converter box, Instrument cluster



- D2 Anti-theft immobilizer reader coil
- J119 Multifunction indicator
- J285 Instrument cluster control module
- J362 Anti-theft immobilizer control module
- J680 Terminal 75 power supply relay 1
- J764 Electronic steering column lock control module
- J935 Converter box
- K Instrument cluster
- T2bm 2-pin connector
- T9mz 9-pin connector
- T10i 10-pin connector
- T16v 16-pin connector
- T32 32-pin connector
- B346 Connection 75 (in main wiring harness) 1
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- * Depending on equipment

ws = white
 sw = black
 ro = red
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 gn = green
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 gr = grey
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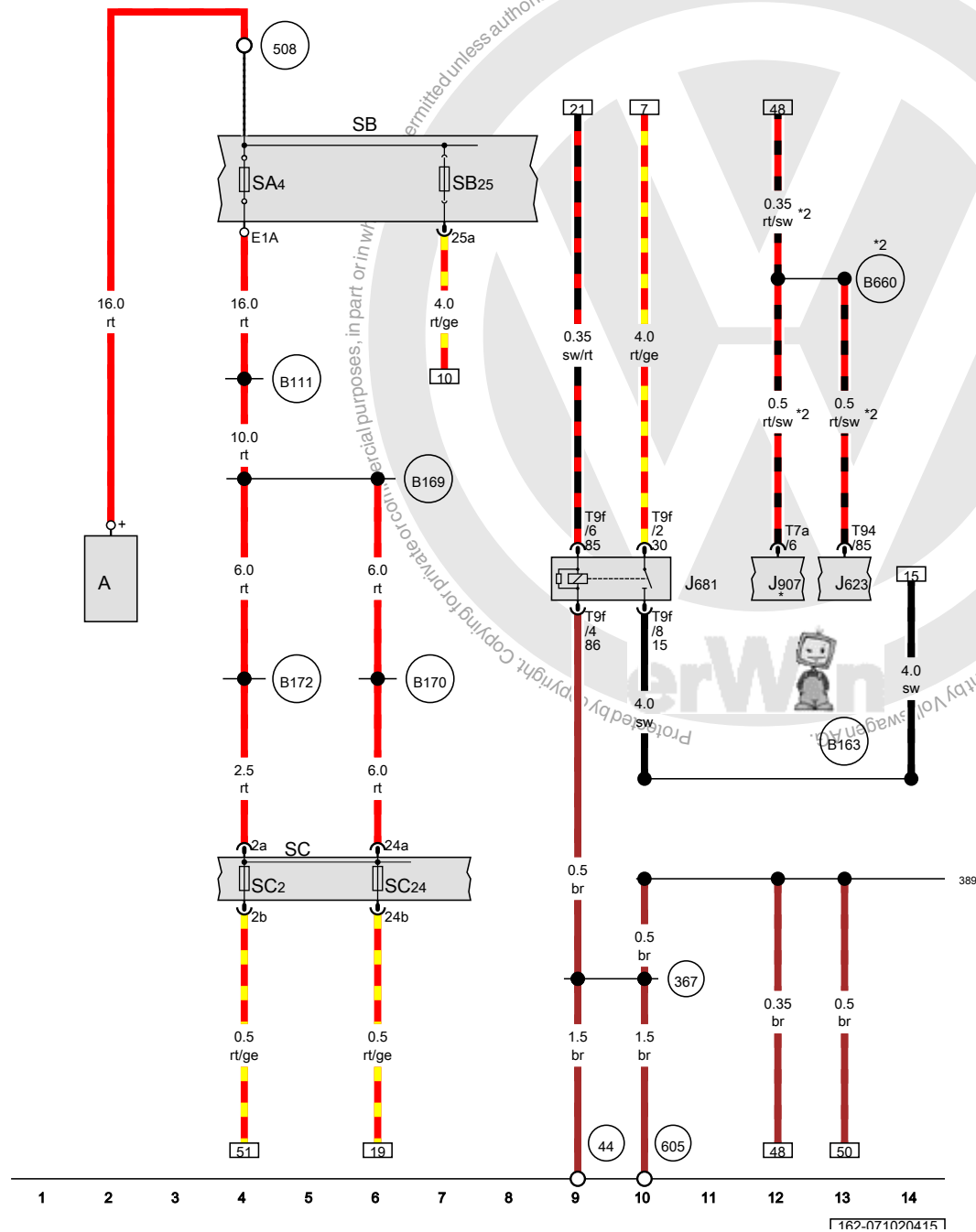
57 58 59 60 61 62 63 64 65 66 67 68 69 70

162-070060316

Keyless access/locking and starting system , (AW1)

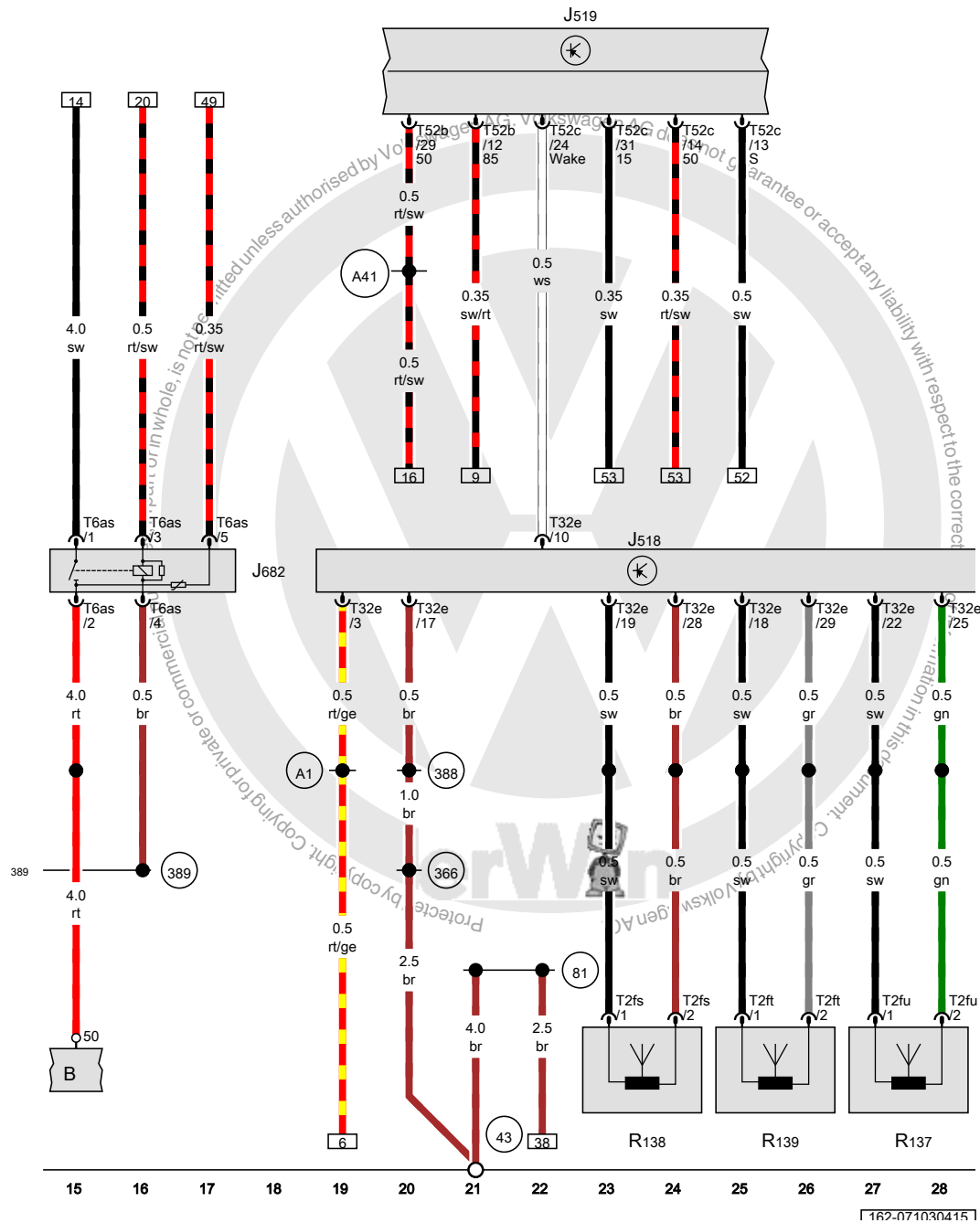
from April 2010





Terminal 15 power supply relay 2, Fuse panel B, Fuse panel C

- | | |
|------|--|
| A | Battery |
| J623 | Engine control module |
| J681 | Terminal 15 power supply relay 2 |
| J907 | Starter relay 2 |
| SA4 | Fuse 4 (on fuse panel A) |
| SB | Fuse panel B |
| SC | Fuse panel C |
| SC2 | Fuse 2 (on fuse panel C) |
| SC24 | Fuse 24 (on fuse panel C) |
| SB25 | Fuse 25 (on fuse panel B) |
| T7a | 7-pin connector |
| T9f | 9-pin connector |
| T94 | 94-pin connector |
| 44 | Ground connection on A-pillar, lower left |
| 367 | Ground connection 2 (in main wiring harness) |
| 389 | Ground connection 24 (in main wiring harness) |
| 508 | Terminal 30 threaded connection (on E-box) |
| 605 | Ground connection on upper steering column |
| B111 | Positive connection 1 (30a) (in interior wiring harness) |
| B163 | Positive connection 1 (15) (in interior wiring harness) |
| B169 | Positive connection 1 (30) (in interior wiring harness) |
| B170 | Positive connection 2 (30) (in interior wiring harness) |
| B172 | Positive connection 4 (30) (in interior wiring harness) |
| B660 | Diagnostic terminal 50 connection (in main wiring harness) |
| * | Refer to the applicable Start/Stop system wiring diagram |
| *2 | Only for vehicles with Stop/Start system |



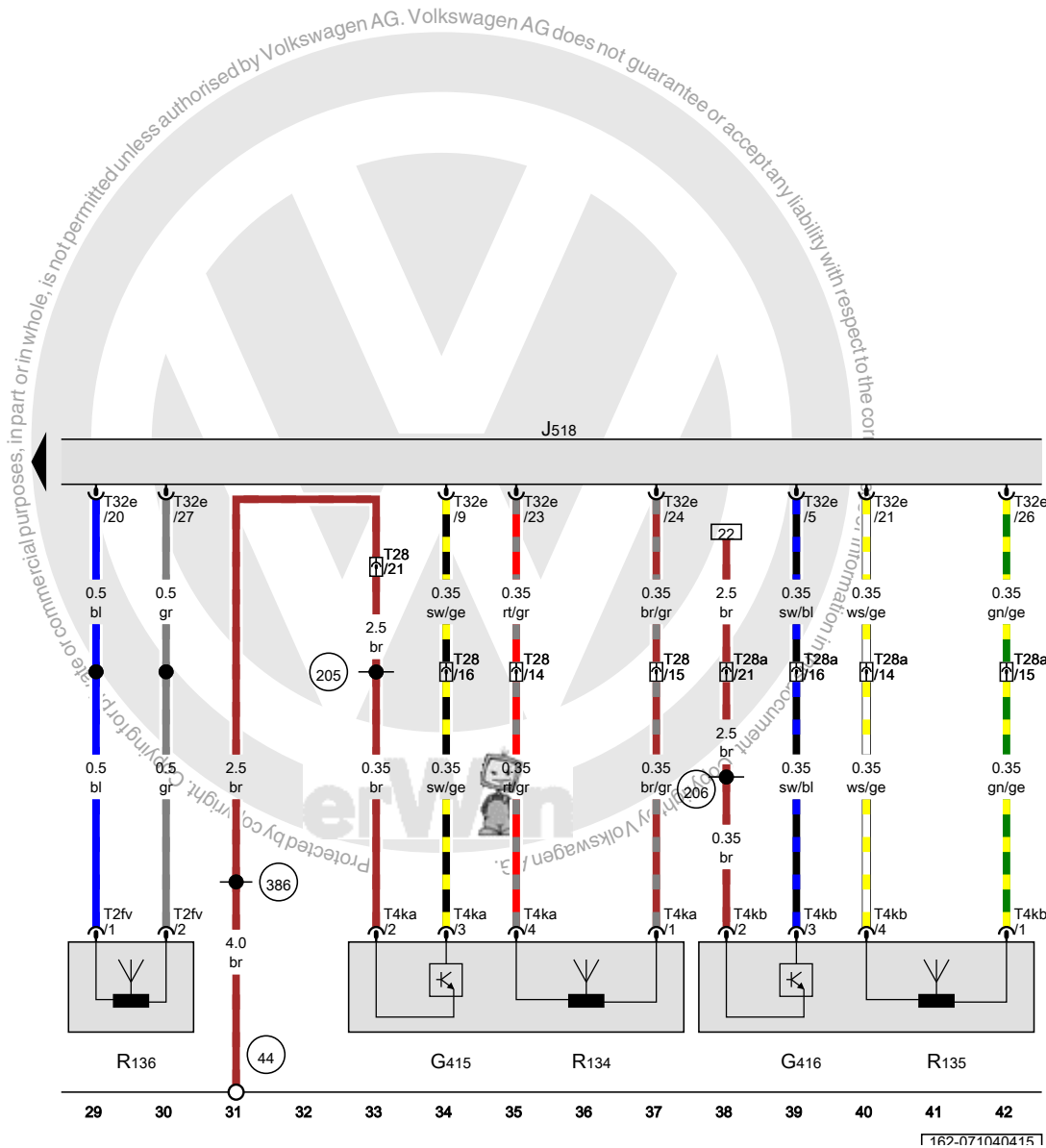
Access/start authorization control module, Vehicle electrical control module system, Terminal 50 power supply relay, Access/start system antenna in luggage compartment, Access/start system antenna 1 in vehicle interior, Access/start system antenna 2 in vehicle interior

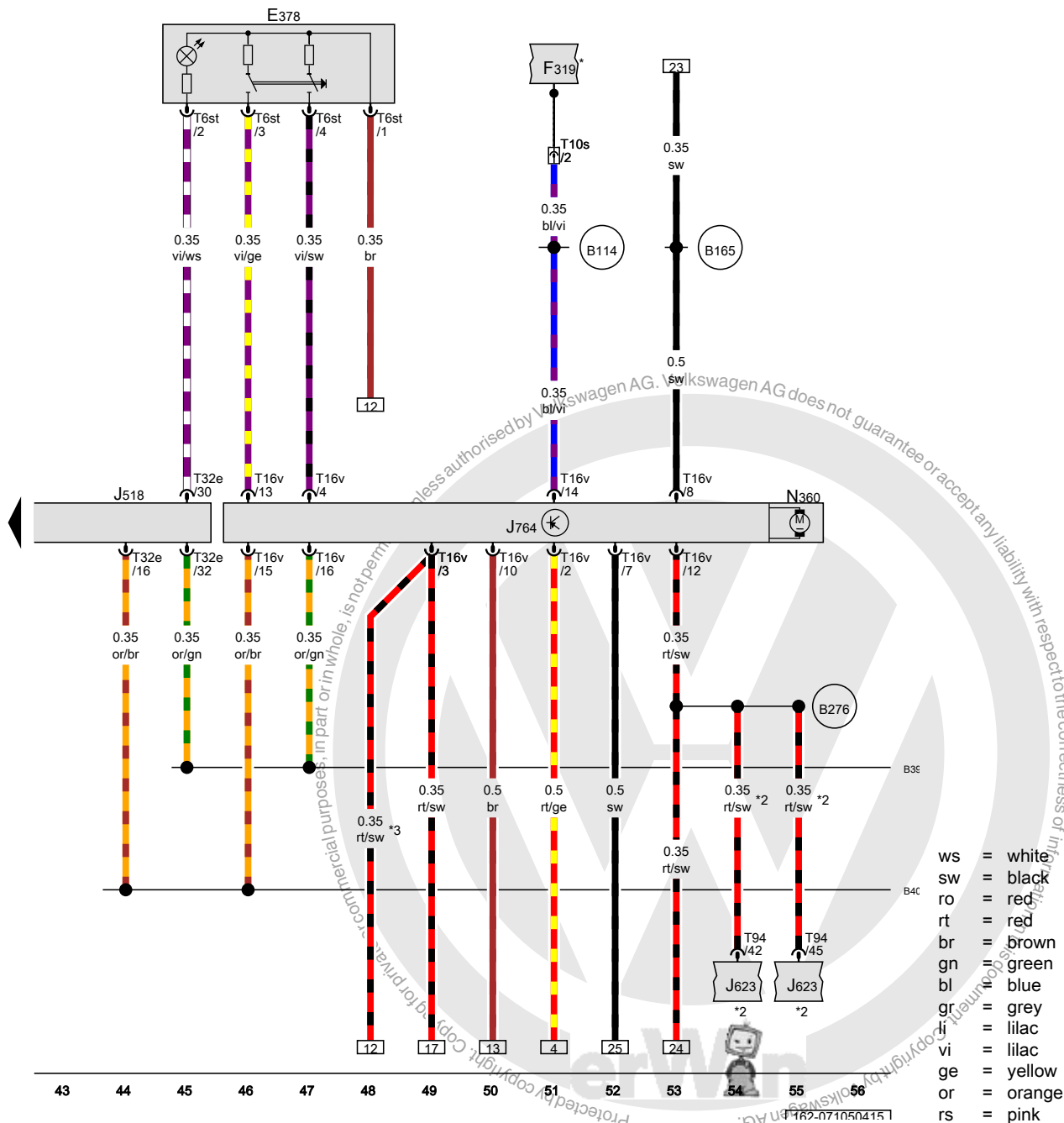
- B Starter
 - J518 Access/start authorization control module
 - J519 Vehicle electrical control module system
 - J682 Terminal 50 power supply relay
 - R137 Access/start system antenna in luggage compartment
 - R138 Access/start system antenna 1 in vehicle interior, under the center console
 - R139 Access/start system antenna 2 in vehicle interior, in the interior
 - T2fs Double connector
 - T2ft Double connector
 - T2fu Double connector
 - T6as 6-pin connector, red
 - T32e 32-pin connector
 - T52b 52-pin connector
 - T52c 52-pin connector
- 43 Ground connection on A-pillar, lower right
 - 81 Ground connection 1 (in instrument panel wiring harness)
 - 366 Ground connection 1 (in main wiring harness)
 - 388 Ground connection 23 (in main wiring harness)
 - 389 Ground connection 24 (in main wiring harness)
 - A1 Positive connection (30a) (in instrument panel wiring harness)
 - A41 Positive connection (50) (in instrument panel wiring harness)

Driver exterior door handle touch sensor, Front passenger exterior door handle touch sensor, Access/start authorization control module, Driver access/start system antenna, Front passenger access/start system antenna, Access/start system antenna in rear bumper

- G415 Driver exterior door handle touch sensor
- G416 Front passenger exterior door handle touch sensor
- J518 Access/start authorization control module
- R134 Driver access/start system antenna
- R135 Front passenger access/start system antenna
- R136 Access/start system antenna in rear bumper
- T2fv Double connector
- T4ka 4-pin connector
- T4kb 4-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T28a 28-pin connector, Right A-pillar, bottom
- T32e 32-pin connector

- 44 Ground connection on A-pillar, lower left
- 205 Ground connection (in driver door wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- 386 Ground connection 21 (in main wiring harness)



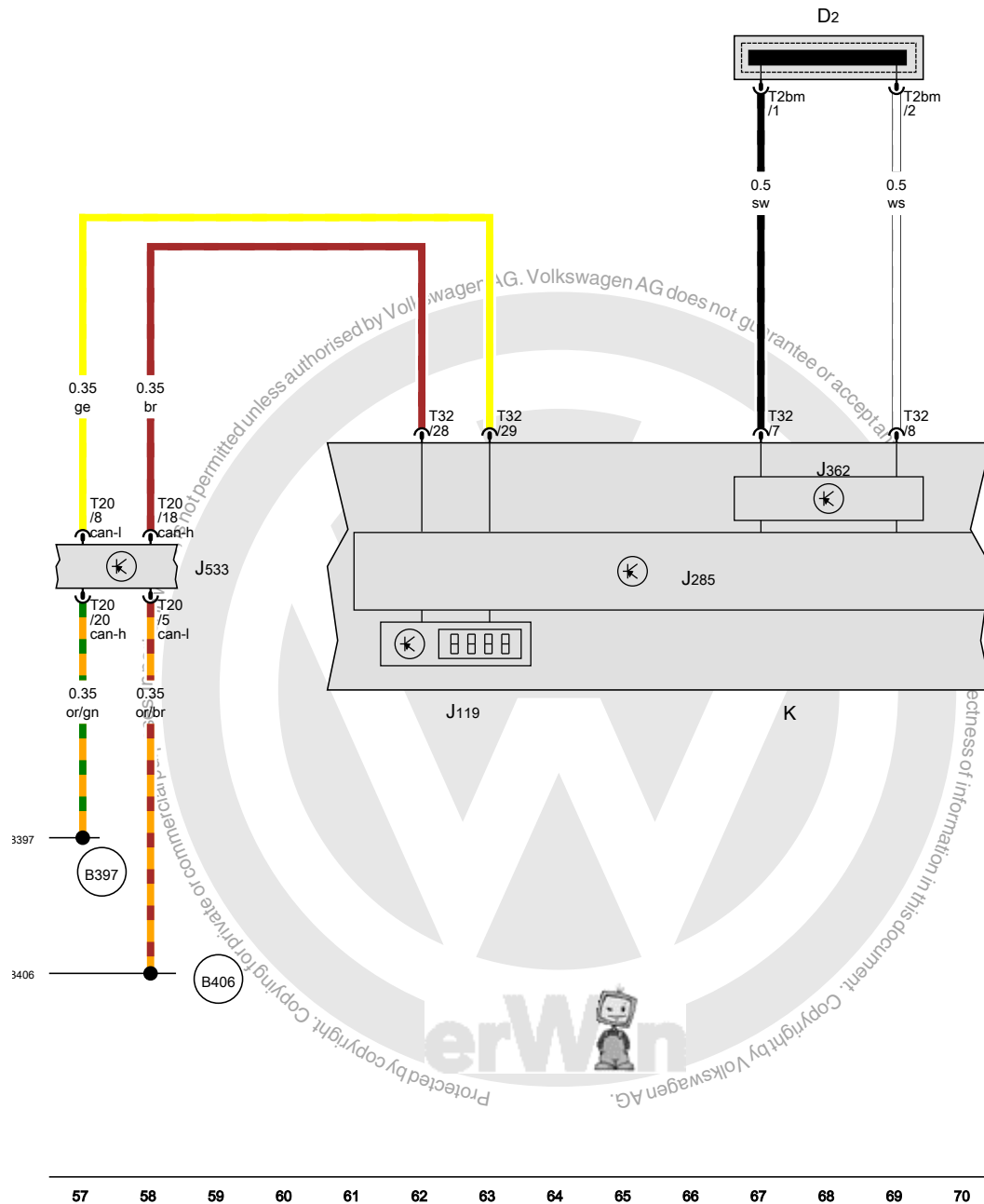


Start system button, Access/start authorization control module, Electronic steering column lock control module

- E378 Start system button
- F319 Selector lever park position lock switch
- J518 Access/start authorization control module
- J623 Engine control module
- J764 Electronic steering column lock control module
- N360 Steering column lock actuator
- T6st 6-pin connector
- T10s 10-pin connector
- T16v 16-pin connector
- T32e 32-pin connector
- T94 94-pin connector

- B114 Lock switch connection (in interior wiring harness)
- B165 Positive connection 2 (15) (in interior wiring harness)
- B276 Positive connection (50) (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

- * Only for vehicles with automatic transmission
- *2 Refer to applicable engine wiring diagram
- *3 Only for vehicles with Stop/Start system



Anti-theft immobilizer reader coil, Multifunction indicator, Anti-theft immobilizer control module, Data bus on board diagnostic interface, Instrument cluster

- D2 Anti-theft immobilizer reader coil
- J119 Multifunction indicator
- J285 Instrument cluster control module
- J362 Anti-theft immobilizer control module
- J533 Data bus on board diagnostic interface
- K Instrument cluster
- T2bm Double connector
- T20 20-pin connector
- T32 32-pin connector
- (B397) Comfort system CAN bus high connection 1 (in main wiring harness)
- (B406) Comfort system CAN bus low connection 1 (in main wiring harness)

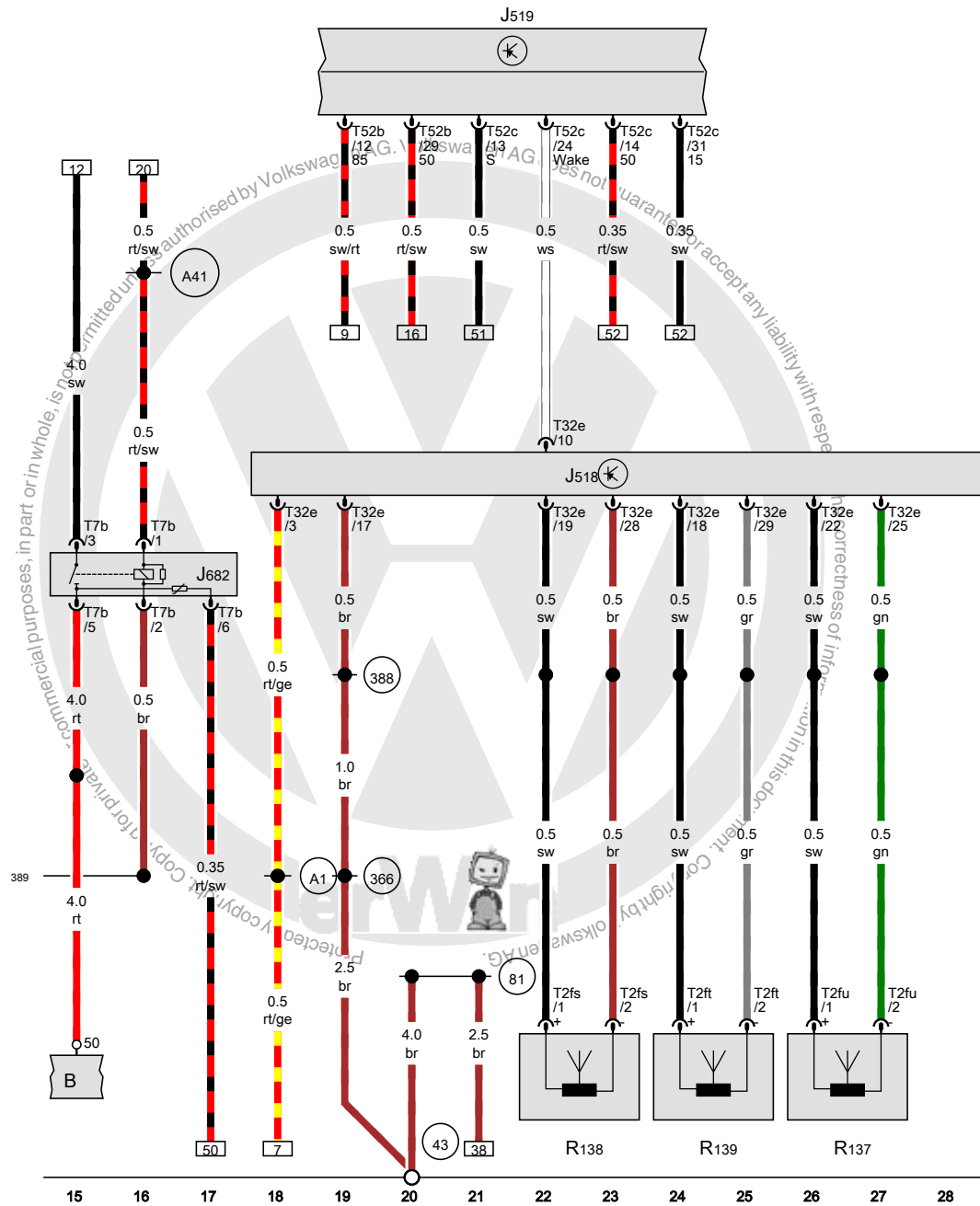
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- gr = grey
- li = lilac
- vi = lilac
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- or = orange
- rs = pink

Keyless access/locking and starting system , (AW1)

from June 2011







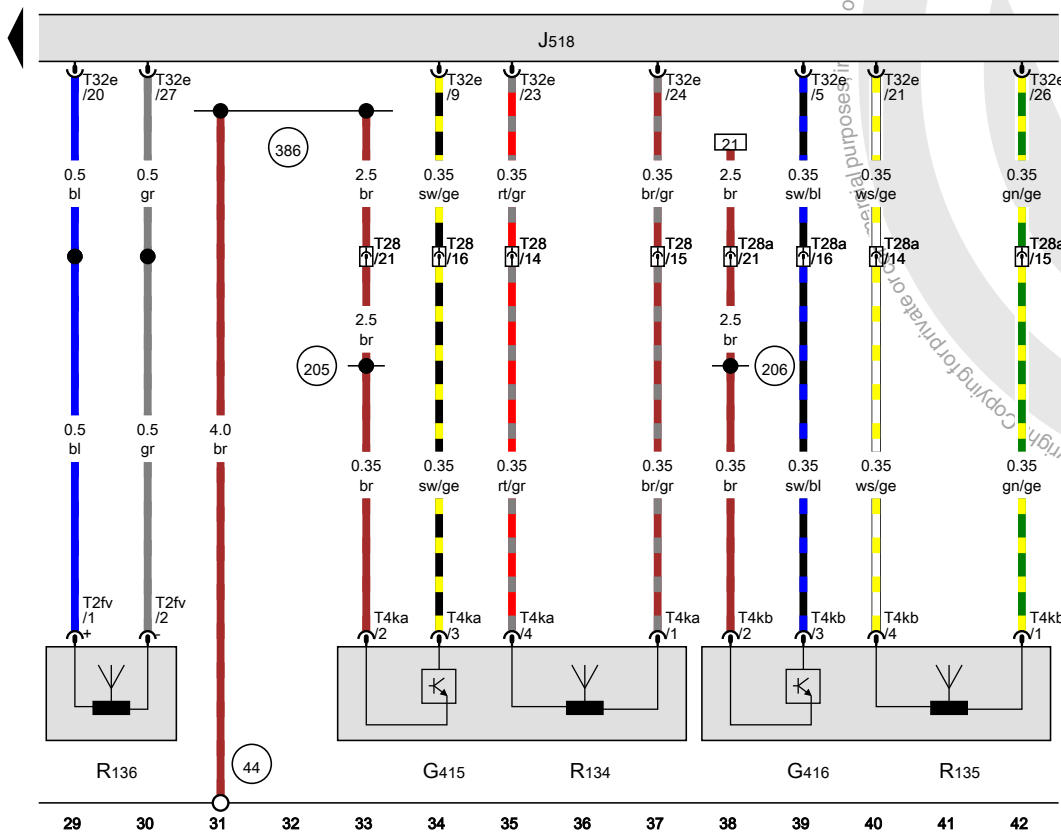
Access/start authorization control module, Vehicle electrical control module system, Terminal 50 power supply relay, Access/start system antenna in luggage compartment, Access/start system antenna 1 in vehicle interior, Access/start system antenna 2 in vehicle interior

- B Starter
- J518 Access/start authorization control module
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- R137 Access/start system antenna in luggage compartment
- R138 Access/start system antenna 1 in vehicle interior, under the center console
- R139 Access/start system antenna 2 in vehicle interior, in the interior
- T2fs 2-pin connector
- T2ft 2-pin connector
- T2fu 2-pin connector
- T7b 7-pin connector
- T32e 32-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- A1 Positive connection (30a) (in instrument panel wiring harness)
- A41 Positive connection (50) (in instrument panel wiring harness)

Driver exterior door handle touch sensor, Front passenger exterior door handle touch sensor, Access/start authorization control module, Driver access/start system antenna, Front passenger access/start system antenna, Access/start system antenna in rear bumper

- G415 Driver exterior door handle touch sensor
- G416 Front passenger exterior door handle touch sensor
- J518 Access/start authorization control module
- R134 Driver access/start system antenna
- R135 Front passenger access/start system antenna
- R136 Access/start system antenna in rear bumper
- T2fv 2-pin connector
- T4ka 4-pin connector
- T4kb 4-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- T28a 28-pin connector, Right A-pillar, bottom
- T32e 32-pin connector

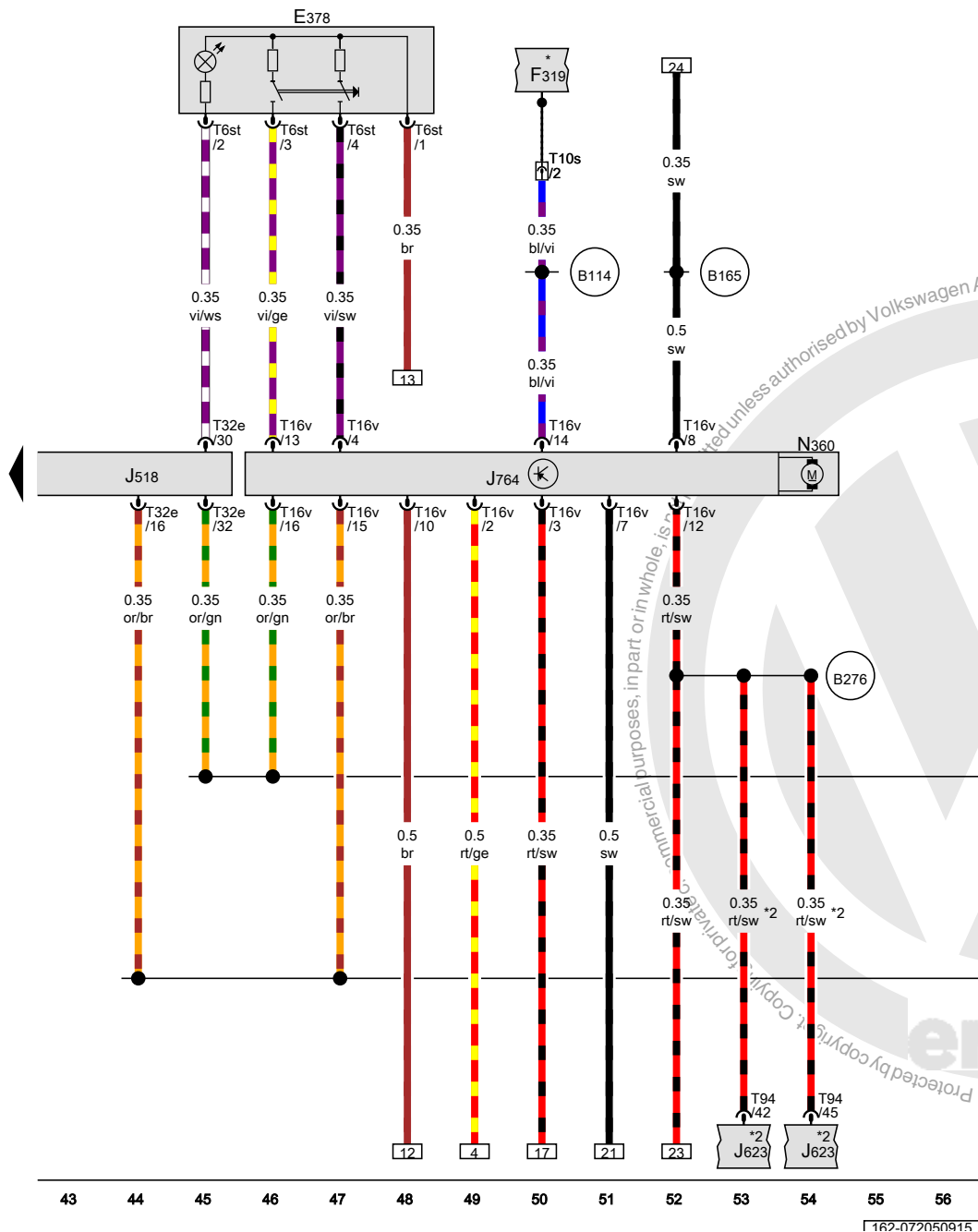
- 44 Ground connection on A-pillar, lower left
- 205 Ground connection (in driver door wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- 386 Ground connection 21 (in main wiring harness)



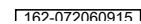
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162-072040915

Start system button, Access/start authorization control module, Electronic steering column lock control module



- E378 Start system button
- F319 Selector lever park position lock switch
- J518 Access/start authorization control module
- J623 Engine control module
- J764 Electronic steering column lock control module
- N360 Steering column lock actuator
- T6st 6-pin connector
- T10s 10-pin connector
- T16v 16-pin connector
- T32e 32-pin connector
- T94 94-pin connector
- B114 Lock switch connection (in interior wiring harness)
- B165 Positive connection 2 (15) (in interior wiring harness)
- B276 Positive connection (50) (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- * Only for vehicles with automatic transmission
- *2 Refer to applicable engine wiring diagram



| | |
|------|---|
| B397 | Comfort system CAN bus high connection 1 (in main wiring harness) |
| B406 | Comfort system CAN bus low connection 1 (in main wiring harness) |
| B708 | Instrument cluster CAN bus high connection 1 (in main wiring harness) |
| B709 | Instrument cluster CAN bus low connection 1 (in main wiring harness) |

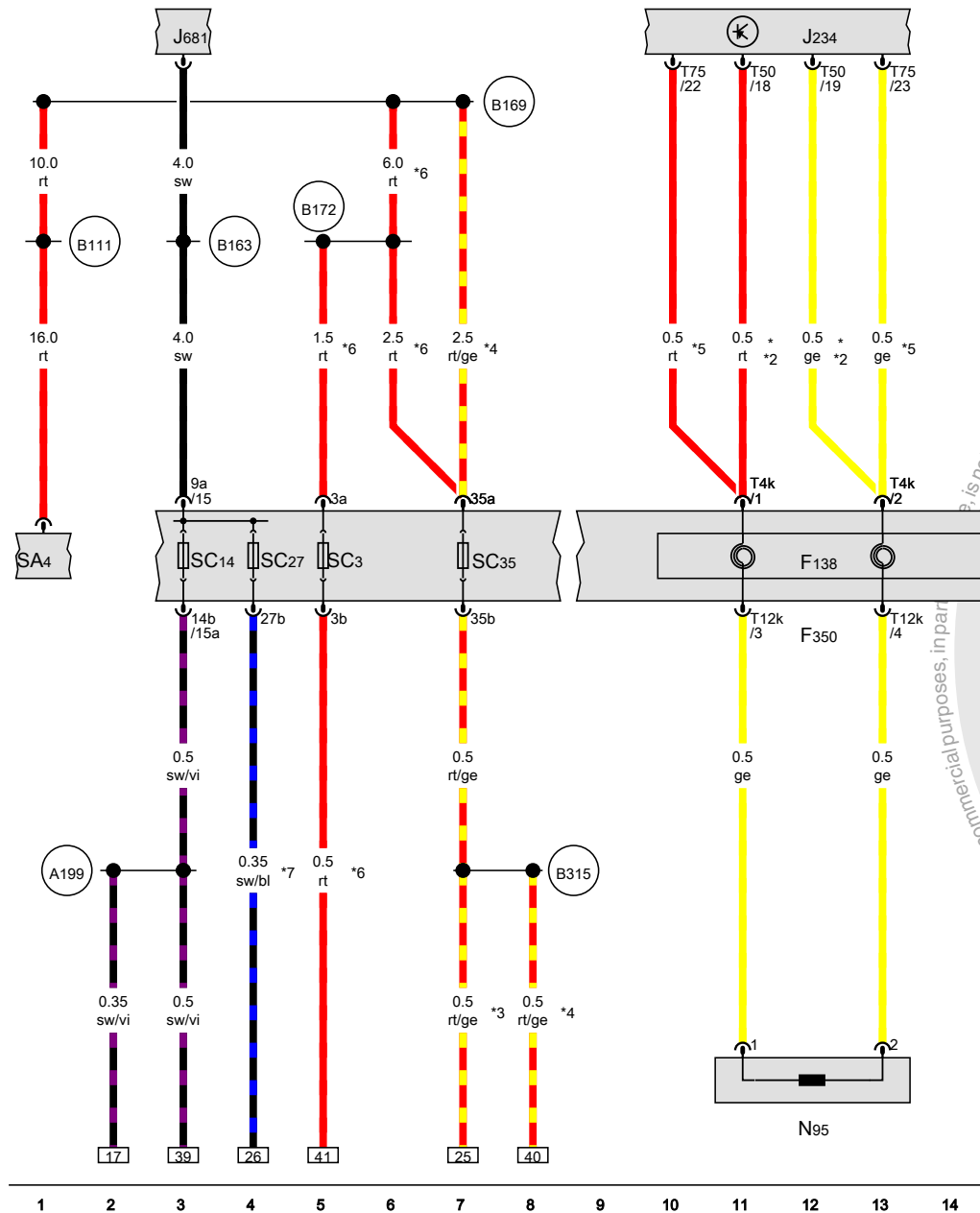
09.2015

Multifunction Steering Wheel , (AW0)

From May 2010



Airbag Spiral Spring/Return Spring with Slip Ring, Airbag Control Module, Driver Airbag Igniter, Fuse 35 (On Fuse Panel C)



- F138 Airbag Spiral Spring/Return Spring with Slip Ring
- F350 Spiral Spring
- J234 Airbag Control Module
- J681 Terminal 15 Power Supply Relay 2
- N95 Driver Airbag Igniter
- SC3 Fuse 3 (On Fuse Panel C)
- SA4 Fuse 4 (On Fuse Panel A)
- SC14 Fuse 14 (On Fuse Panel C)
- SC27 Fuse 27 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- T4k 4-Pin Connector
- T12k 12-Pin Connector
- T50 50-Pin Connector
- T75 75-Pin Connector

- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- * For Vehicles with China Equipment
- *2 For Mexico
- *3 Through May 2011
- *4 Omitted as a Running Change
- *5 Depending on Equipment
- *6 Running Change
- *7 From June 2011

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- rs = pink

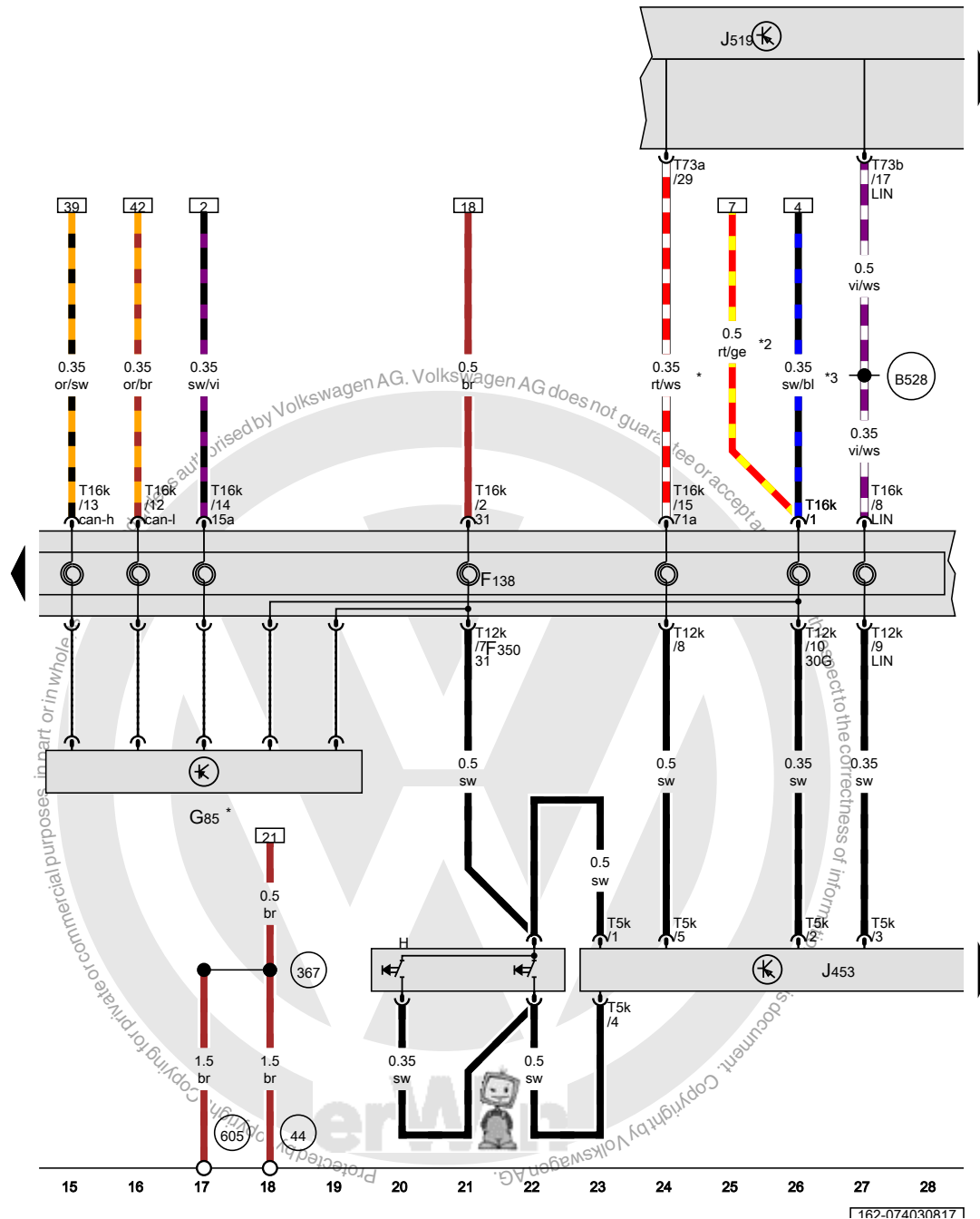
Airbag Spiral Spring/Return Spring with Slip Ring, Signal Horn Activation, Multifunction Steering Wheel Control Module, Vehicle Electrical System Control Module

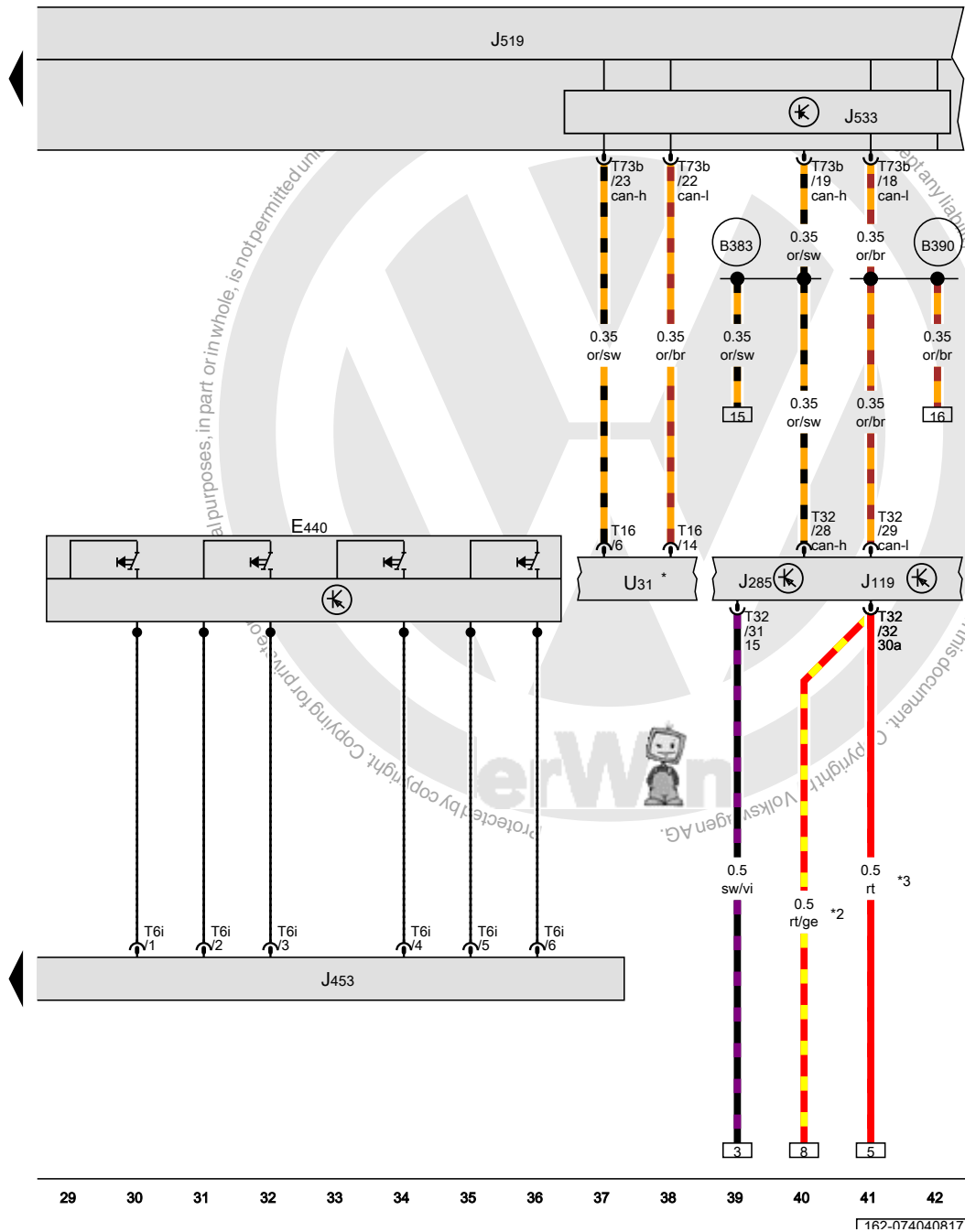
- F138 Airbag Spiral Spring/Return Spring with Slip Ring
- F350 Spiral Spring
- G85 Steering Angle Sensor
- H Signal Horn Activation
- J453 Multifunction Steering Wheel Control Module
- J519 Vehicle Electrical System Control Module
- T5k 5-Pin Connector
- T12k 12-Pin Connector
- T16k 16-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- 44 Ground Connection on A-Pillar, Lower Left
- 367 Ground Connection 2 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- B528 LIN Bus Connection 1 (in Main Wiring Harness)

- * Depending on Equipment
- *2 Through May 2011
- *3 From June 2011

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Left Multifunction Buttons on Steering Wheel, Multifunction Indicator, Instrument Cluster Control Module, Multifunction Steering Wheel Control Module, Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Diagnostic Connection

- E440 Left Multifunction Buttons on Steering Wheel
- J119 Multifunction Indicator
- J285 Instrument Cluster Control Module
- J453 Multifunction Steering Wheel Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- T6i 6-Pin Connector
- T16 16-Pin Connector
- T32 32-Pin Connector
- T73b 73-Pin Connector
- U31 Diagnostic Connection

- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)

- * Diagnostic Connector
- *2 Omitted as a Running Change
- *3 Running Change

Steering wheel, multifunction , (AW1)

from May 2010



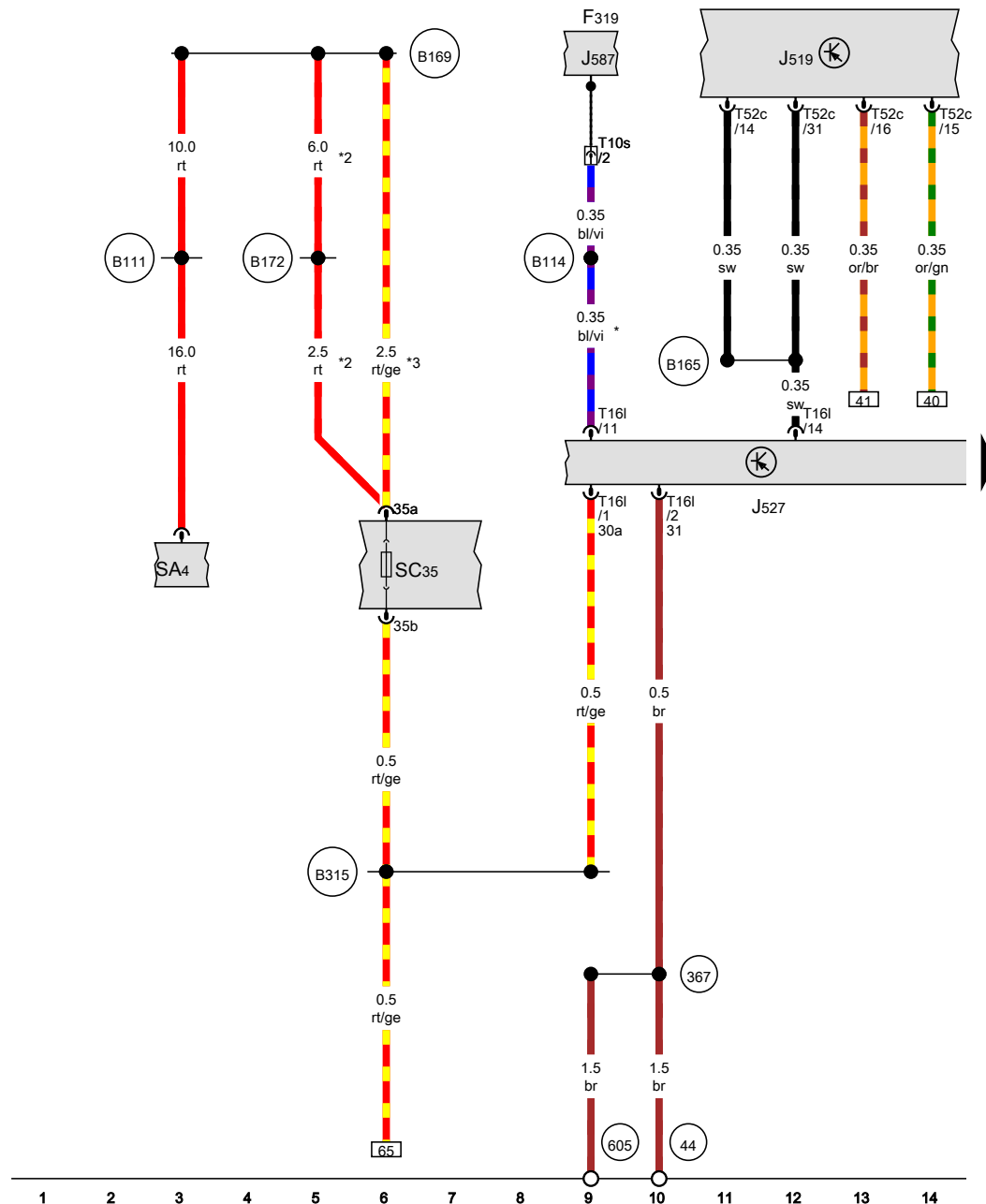
Steering column electronics control module

- F319 Selector lever park position lock switch
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- J587 Selector lever sensor system control module
- SA4 Fuse 4 (on fuse panel A)
- SC35 Fuse 35 (on fuse panel C)
- T10s 10-pin connector
- T16l 16-pin connector
- T52c 52-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 605 Ground connection on upper steering column
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B114 Lock switch connection (in interior wiring harness)
- B165 Positive connection 2 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B315 Positive connection 1 (30a) (in main wiring harness)

- * Only for vehicles with DSG transmission
- *2 Running change
- *3 Omitted as a running change

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- bl = blue
- gr = grey
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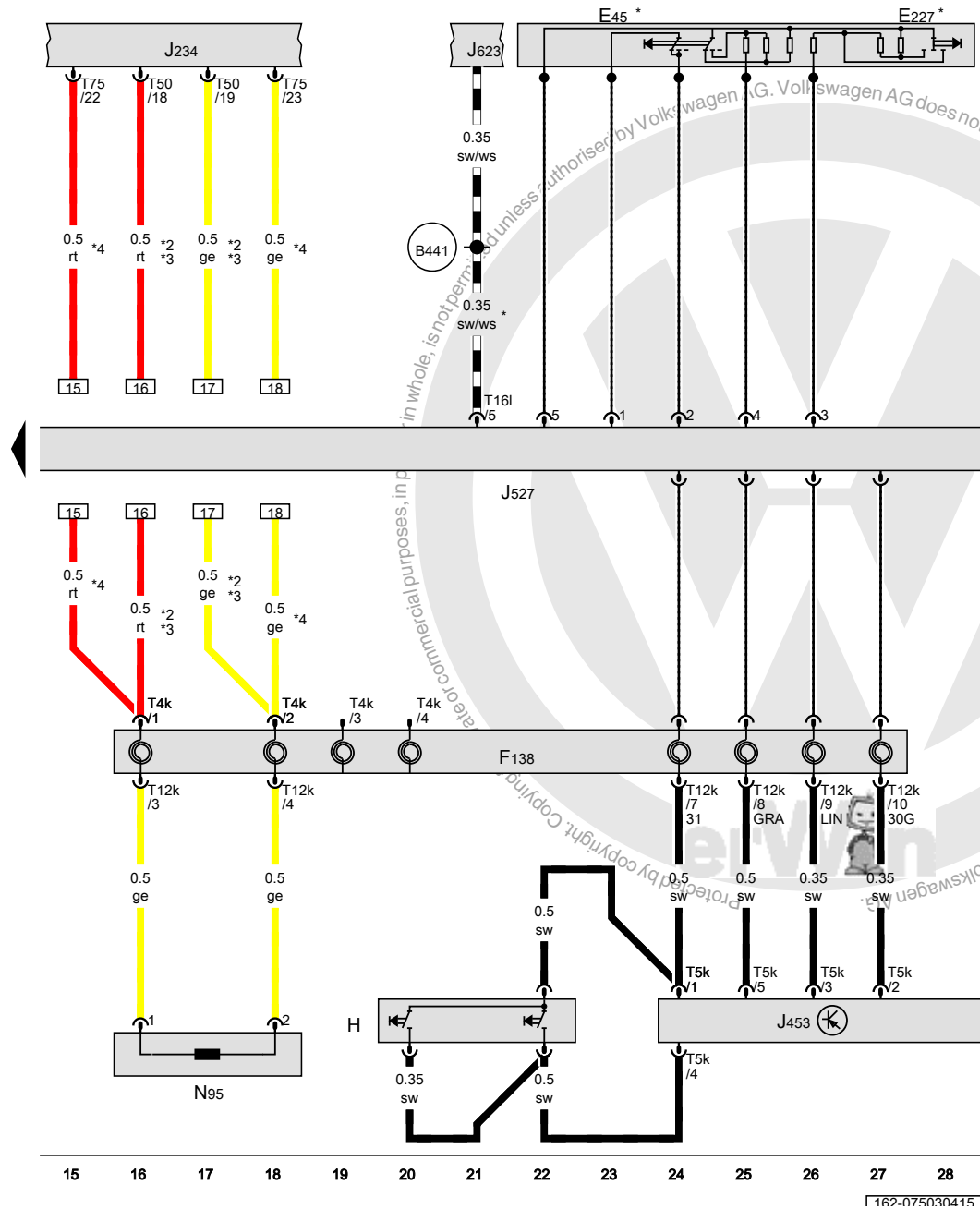
Cruise control switch, Airbag spiral spring/return spring with slip ring, Signal horn activation, Airbag control module, Multifunction steering wheel control module, Steering column electronics control module, Driver airbag igniter

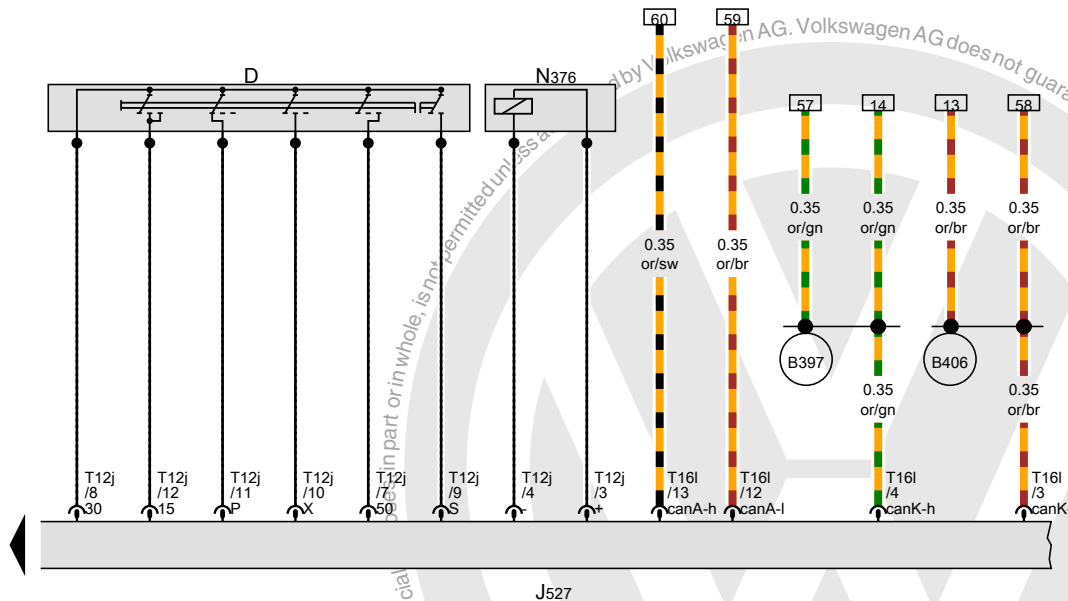
- E45 Cruise control switch
- E227 Cruise control -SET- button
- F138 Airbag spiral spring/return spring with slip ring
- H Signal horn activation
- J234 Airbag control module
- J453 Multifunction steering wheel control module
- J527 Steering column electronics control module
- J623 Engine control module
- N95 Driver airbag igniter
- T4k 4-pin connector
- T5k 5-pin connector
- T12k 12-pin connector
- T16l 16-pin connector
- T50 50-pin connector
- T75 75-pin connector
- T94a 94-pin connector

B441 Cruise control connection (in main wiring harness)

- * Only for vehicles with cruise control
- *2 Only for vehicles with China equipment
- *3 only for Mexico
- *4 Depending on equipment

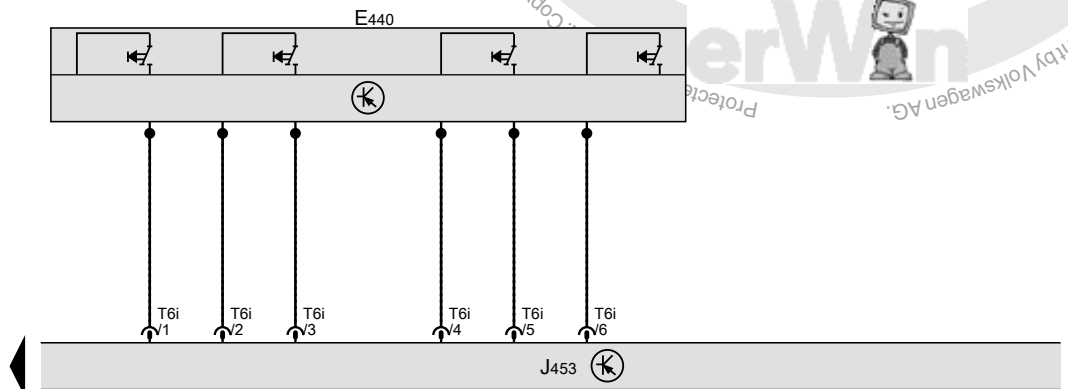
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Ignition/starter switch, Multifunction steering wheel control module, Steering column electronics control module, Ignition switch key lock solenoid

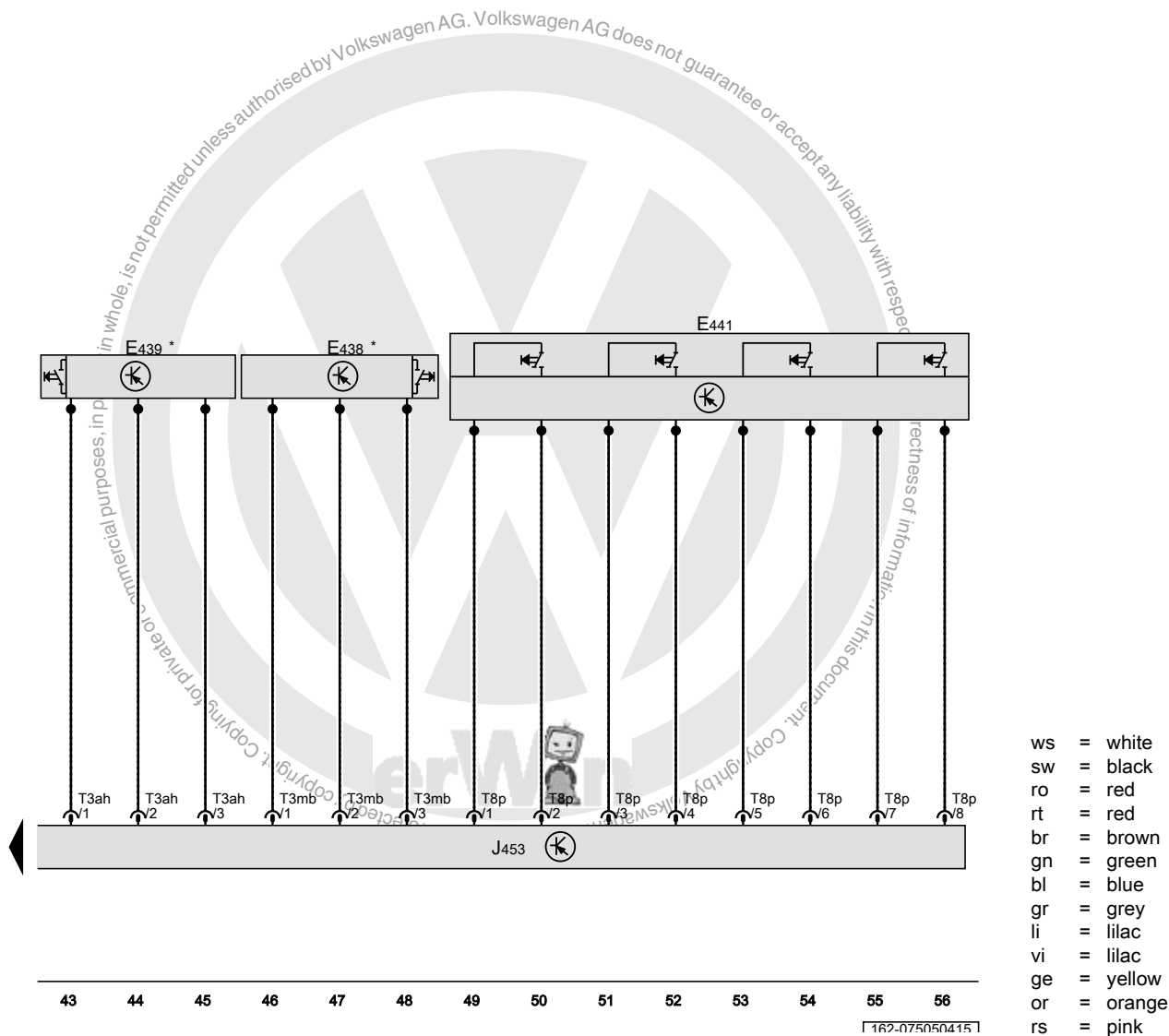
- D Ignition/starter switch
- E440 Left multifunction buttons on steering wheel
- J453 Multifunction steering wheel control module
- J527 Steering column electronics control module
- N376 Ignition switch key lock solenoid
- T6i 6-pin connector
- T12j 12-pin connector
- T16i 16-pin connector
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

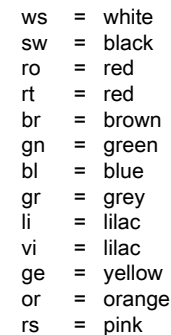


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Multifunction steering wheel control module

- E438 tiptronic upshift button on steering wheel
- E439 tiptronic downshift button on steering wheel
- E441 Right multifunction buttons on steering wheel
- J453 Multifunction steering wheel control module
- T3ah 3-pin connector
- T3mb 3-pin connector
- T8p 8-pin connector
- * Only for vehicles with DSG transmission

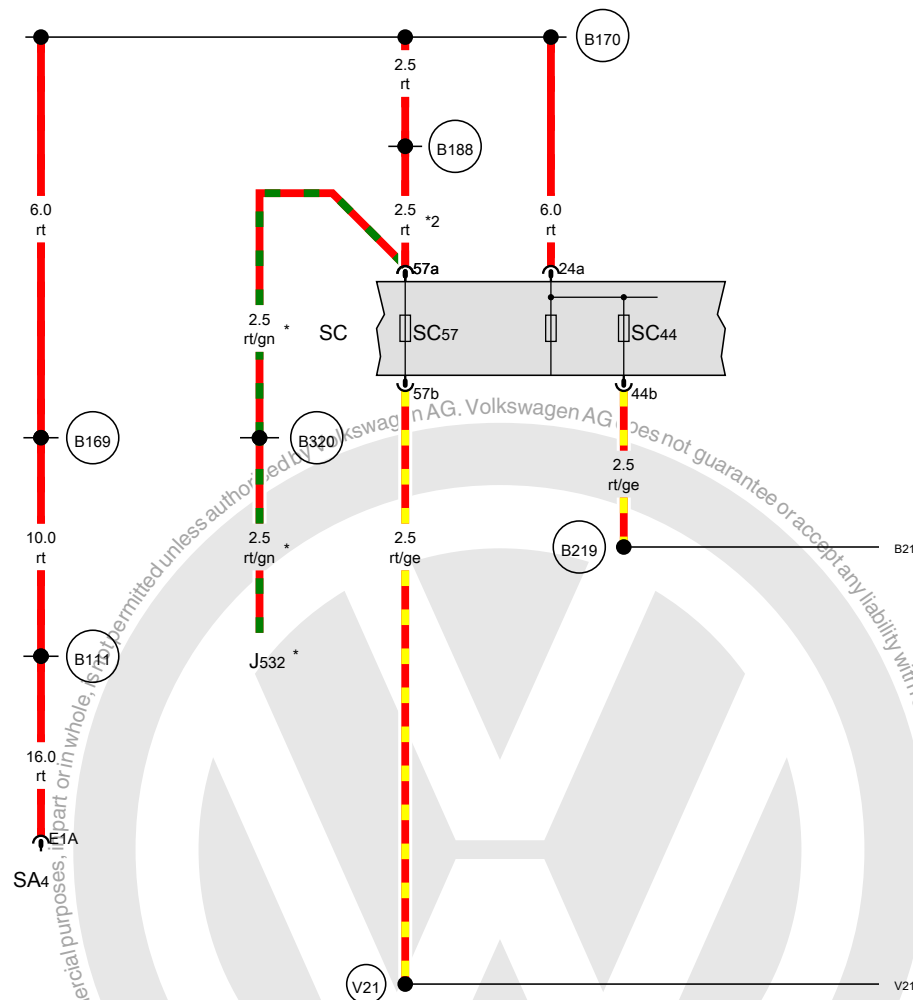




Radio navigation system RNS 510 , (7T6),(7UL)

from January 2011

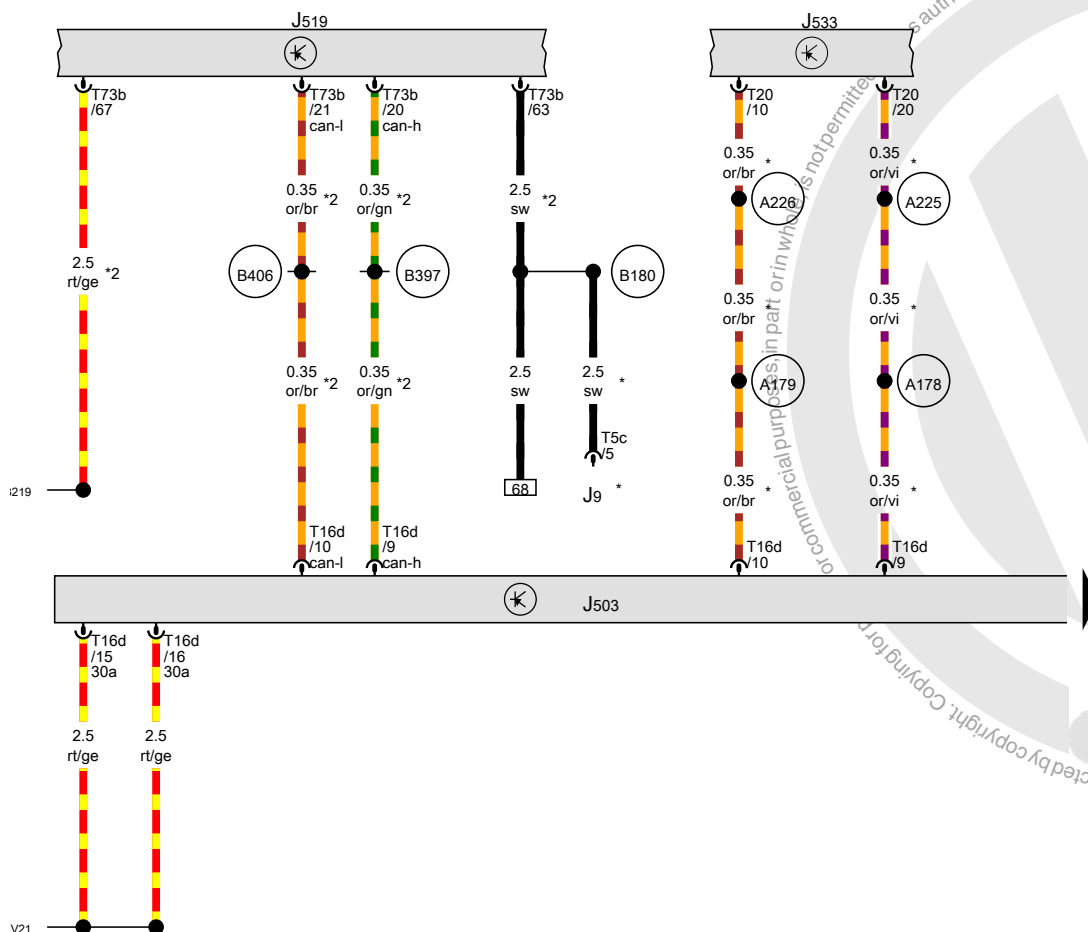




Fuse 4 (on fuse panel A), Fuse panel C

- J532 Voltage stabilizer
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC44 Fuse 44 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B188 Positive connection 5 (30) (in interior wiring harness)
- B219 Positive connection 4 (30a) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)
- * Only for vehicles with Stop/Start system
- *2 Only for vehicles without Start/Stop system

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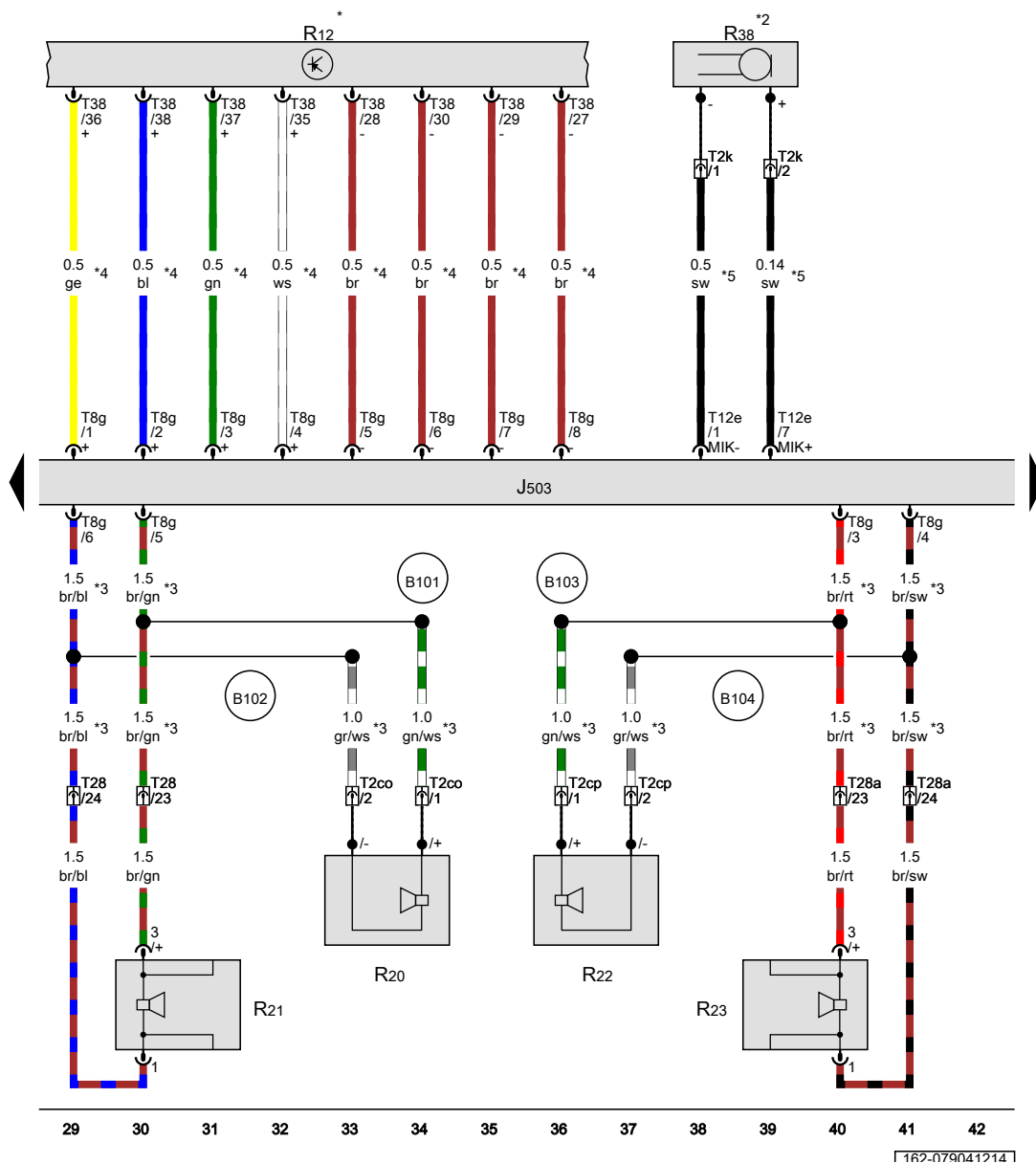


Radio/navigation display unit control module, Vehicle electrical control module system, Data bus on board diagnostic interface

- J9 Rear window defogger relay
- J503 Radio/navigation display unit control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- T5c 5-pin connector
- T16d 16-pin connector
- T20 20-pin connector
- T73b 73-pin connector
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B180 Rear window defogger connection (in interior wiring harness)
- B219 Positive connection 4 (30a) (in interior wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)
- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Radio/navigation display unit control module, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker



- J503 Radio/navigation display unit control module
- R12 Amplifier
- R20 Left front treble speaker
- R21 Left front bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- R38 Telephone microphone
- T2co Double connector, Interface for front speaker, in the instrument panel, left
- T2cp Double connector, Interface for front speaker, in the instrument panel, right
- T2k Double connector
- T8g 8-pin connector
- T12e 12-pin connector
- T28 28-pin connector
- T28a 28-pin connector
- T38 38-pin connector

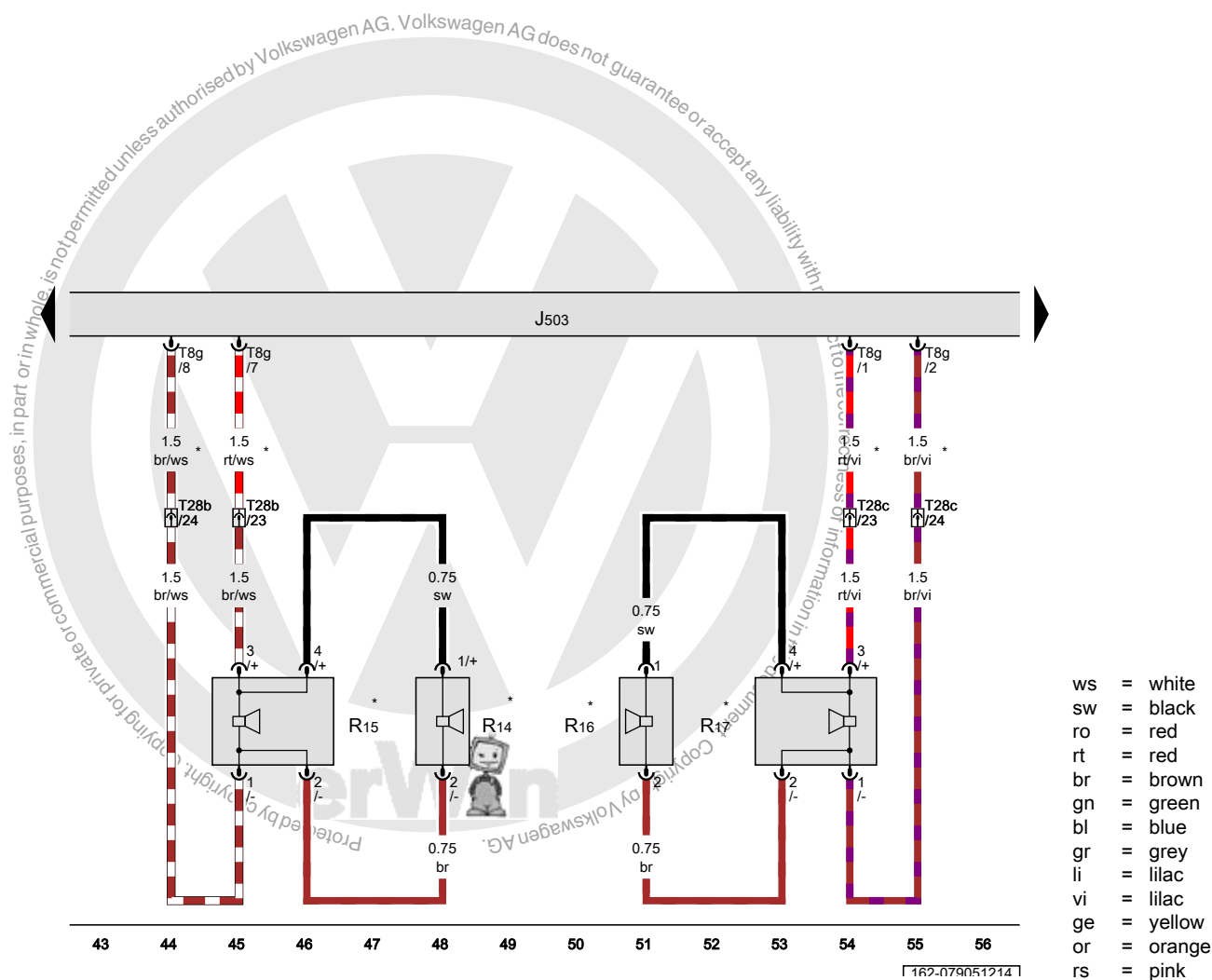
- B101 Left front speaker positive connection (in main wiring harness)
- B102 Left front speaker negative connection (in main wiring harness)
- B103 Right front speaker positive connection (in main wiring harness)
- B104 Right front speaker negative connection (in main wiring harness)

- * Refer to applicable sound system wiring diagram
- *2 Refer to applicable telephone systems wiring diagram
- *3 Only for vehicles without sound system
- *4 Only for vehicles with sound system
- *5 Depending on equipment

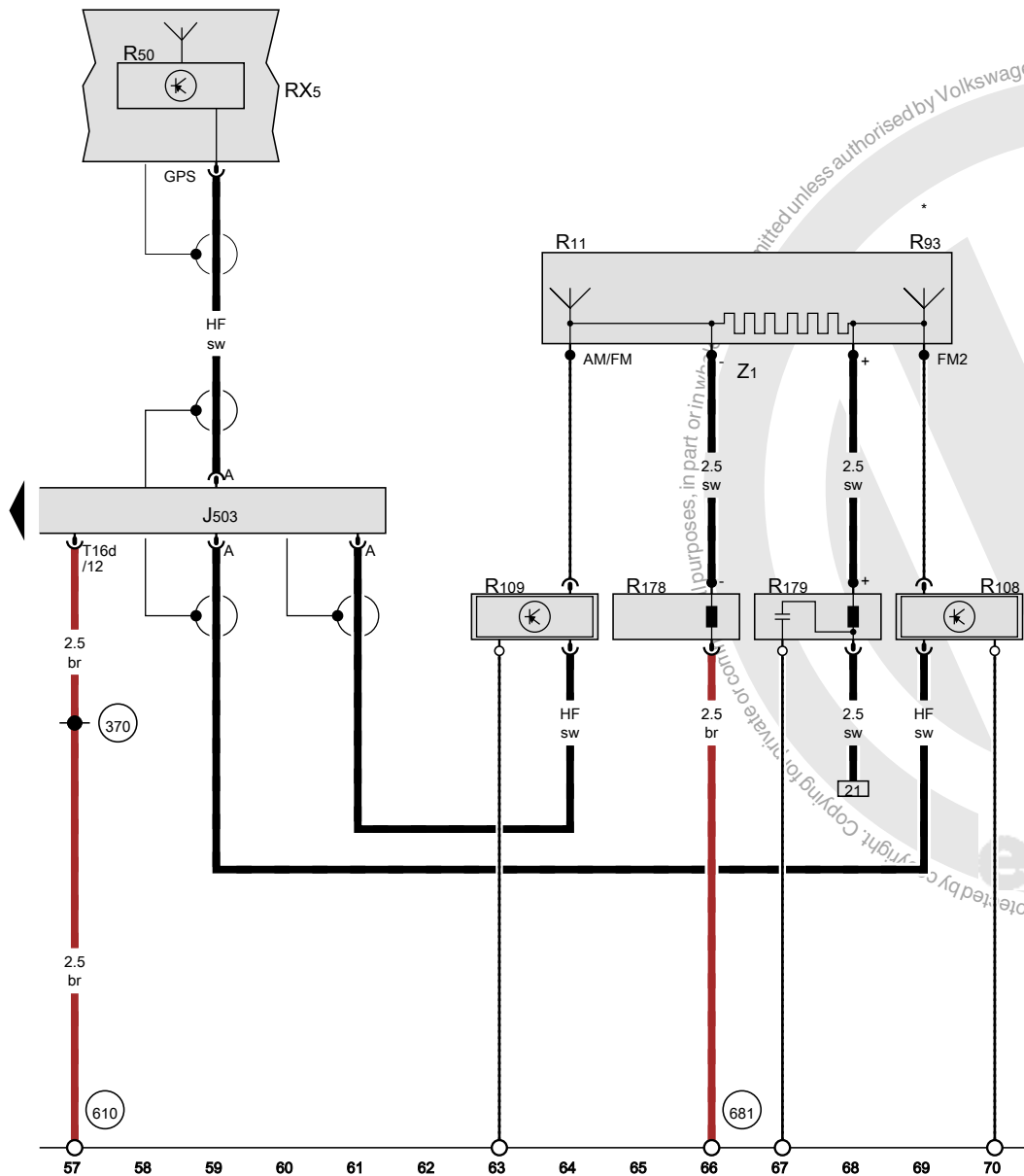
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- or = orange
- rs = pink

Radio/navigation display unit control module, Left rear treble speaker, Left rear bass speaker, Right rear treble speaker, Right rear bass speaker

- J503 Radio/navigation display unit control module
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- T8g 8-pin connector
- T28b 28-pin connector
- T28c 28-pin connector
- * Depending on equipment



Radio/navigation display unit control module, Roof antenna, Antenna, GPS antenna, Radio antenna 2, Left antenna module, Right antenna module, Rear window defogger

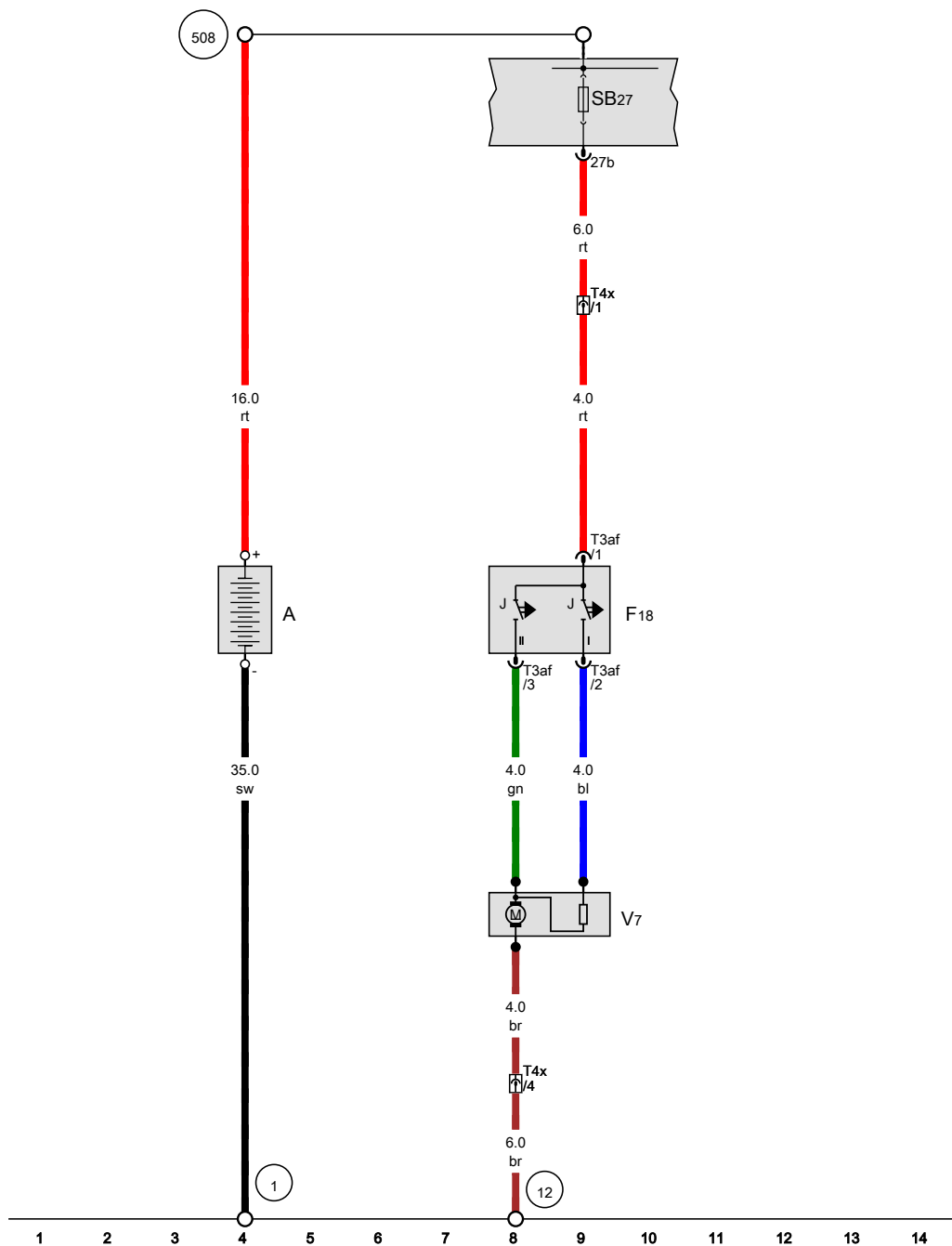


162-079061214

Coolant fan without A/C system , (9AA)

from April 2010





Radiator fan control thermal switch, Fuse 27 (on fuse panel B), Radiator fan

- A Battery
- F18 Radiator fan control thermal switch
- SB27 Fuse 27 (on fuse panel B)
- T3af 3-pin connector
- T4x 4-pin connector
- V7 Radiator fan

- 1 Ground strap, battery to body
- 12 Ground connection in engine compartment, left
- 508 Terminal 30 threaded connection (on E-box)

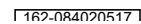
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- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-081020415

2.5L Gasoline Engine , CBTA,CBUA,(AW0)

From December 2010





| | |
|------|--|
| A | Battery |
| B | Starter |
| C | Generator |
| C1 | Voltage Regulator |
| J519 | Vehicle Electrical System Control Module |
| SA1 | Fuse 1 (On Fuse Panel A) |
| SA4 | Fuse 4 (On Fuse Panel A) |
| SB | Fuse Panel B |
| T2 | 2-Pin Connector |
| T2i | 2-Pin Connector, Near the Starter |
| T4i | 4-Pin Connector, Near the Starter |
| T73b | 73-Pin Connector |

- * For Vehicles with A/C System
- *2 Omitted as a Running Change
- *3 For Vehicles Without an A/C System
- *4 Diameter Depends on Equipment

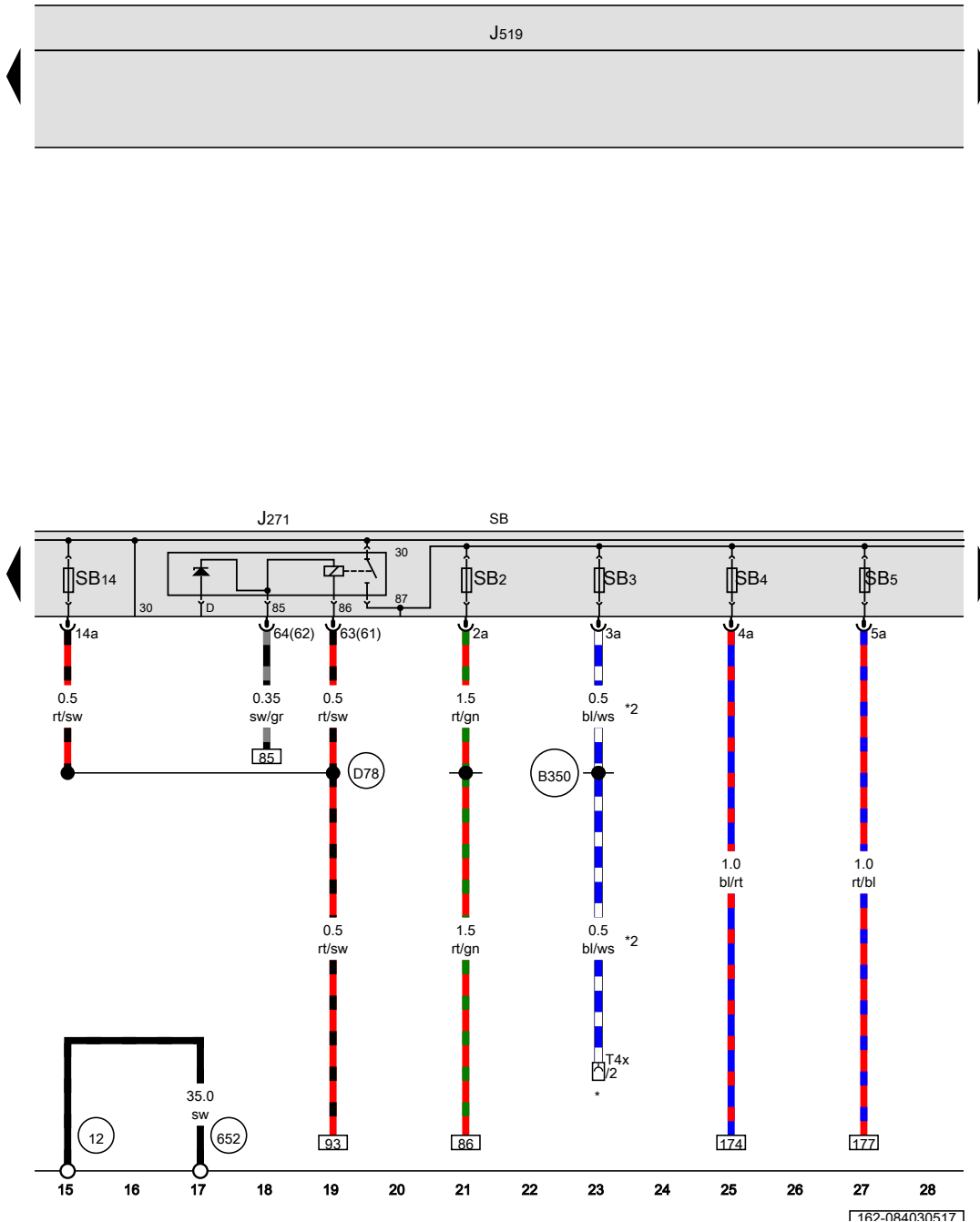
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| bl | = | blue |
| gr | = | grey |
| li | = | lilac |
| vi | = | lilac |
| ge | = | yellow |
| or | = | orange |
| rs | = | pink |

**Motronic Engine Control Module Power Supply Relay,
Vehicle Electrical System Control Module, Fuse Panel B,
Fuse 14 (On Fuse Panel B)**

- J271 Motronic Engine Control Module Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB4 Fuse 4 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- T4x 4-Pin Connector

- 12 Ground Connection in Engine Compartment, Left
- 652 Transmission/Engine Ground Connection
- B350 Positive Connection 1 (87a) (in Main Wiring Harness)
- D78 Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)
- * Radiator Fan Connection
- *2 The Color of the Wires Depends on Vehicle Equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

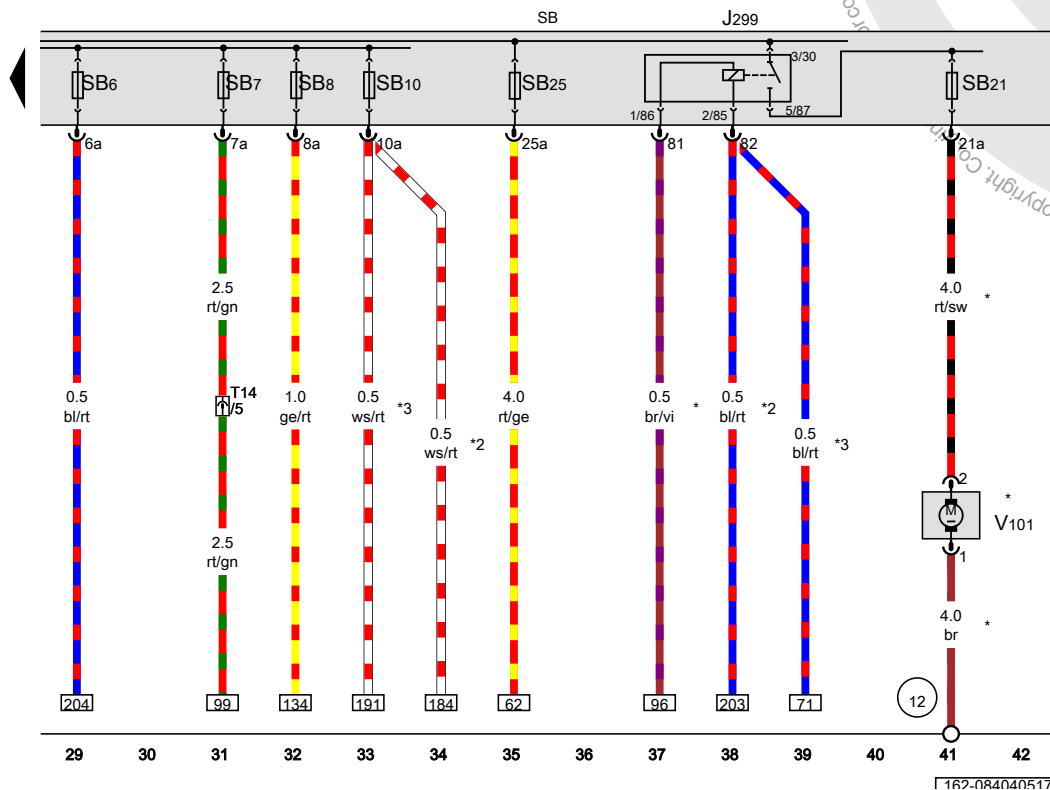


Secondary Air Injection Pump Relay, Vehicle Electrical System Control Module, Fuse Panel B, Secondary Air Injection Pump Motor

- J299 Secondary Air Injection Pump Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB6 Fuse 6 (On Fuse Panel B)
- SB7 Fuse 7 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB21 Fuse 21 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T14 14-Pin Connector, Near the Battery
- V101 Secondary Air Injection Pump Motor

12 Ground Connection in Engine Compartment, Left

- * Depending on Equipment
- *2 Running Change
- *3 Omitted as a Running Change



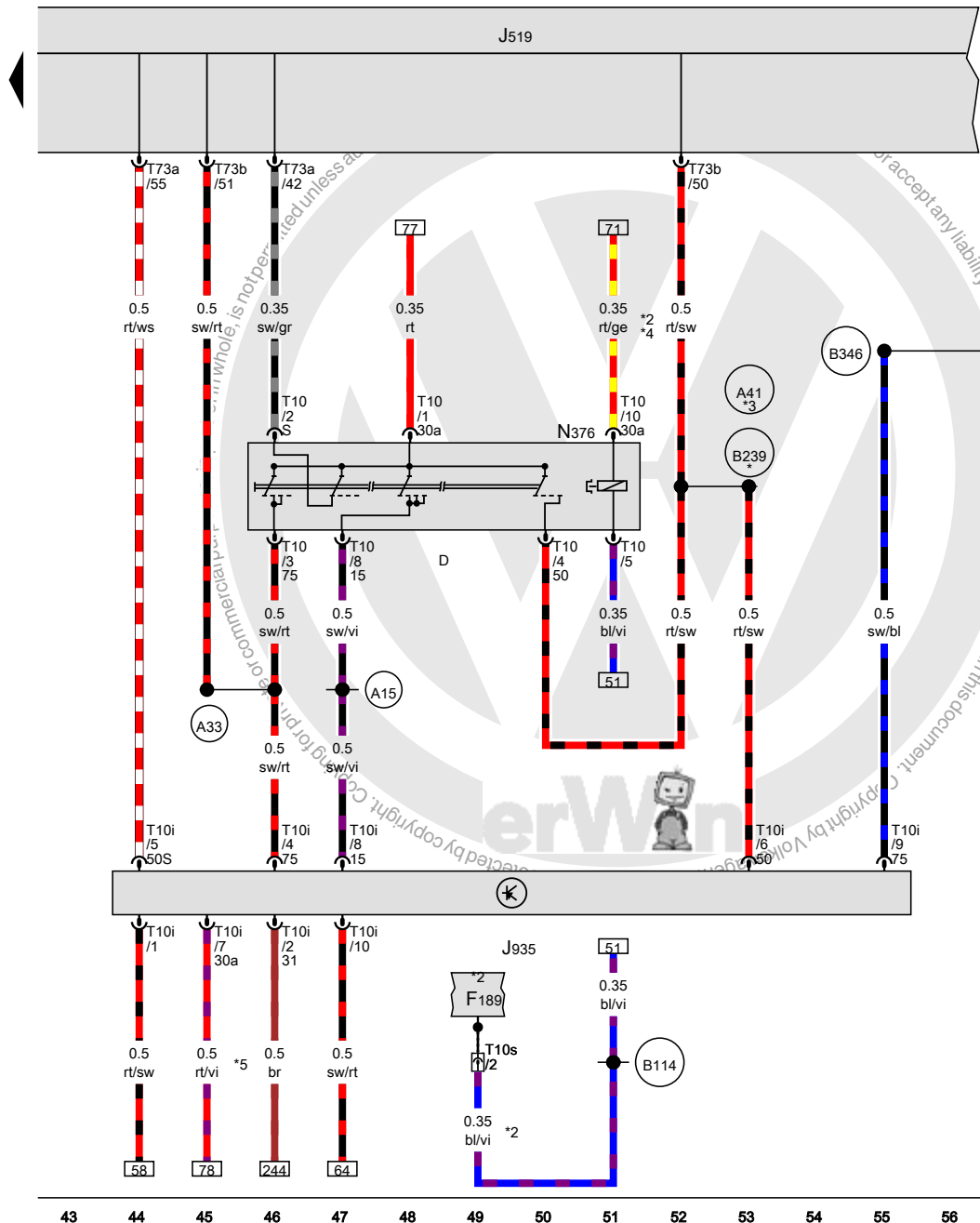
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- br = brown
- gn = green
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- gr = grey
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box

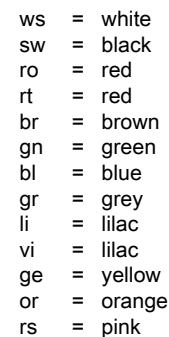
- D Ignition/Starter Switch
- F189 Tiptronic Switch
- J519 Vehicle Electrical System Control Module
- J935 Converter Box
- N376 Ignition Switch Key Lock Solenoid
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T10s 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- A15 Plus Connection (15) (in Instrument Cluster Wiring Harness)
- A33 Connection 75 (in Instrument Panel Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- B114 Lock Switch Connection (in Interior Wiring Harness)
- B239 Positive Connection 1 (50) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * Through May 2013
- *2 For Vehicles with Automatic Transmission
- *3 From June 2013
- *4 Diameter Depends on Equipment
- *5 The Color of the Wires Depends on Vehicle Equipment

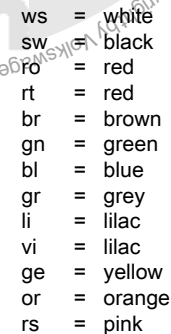
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- ge = yellow
- or = orange
- rs = pink



162-084050517



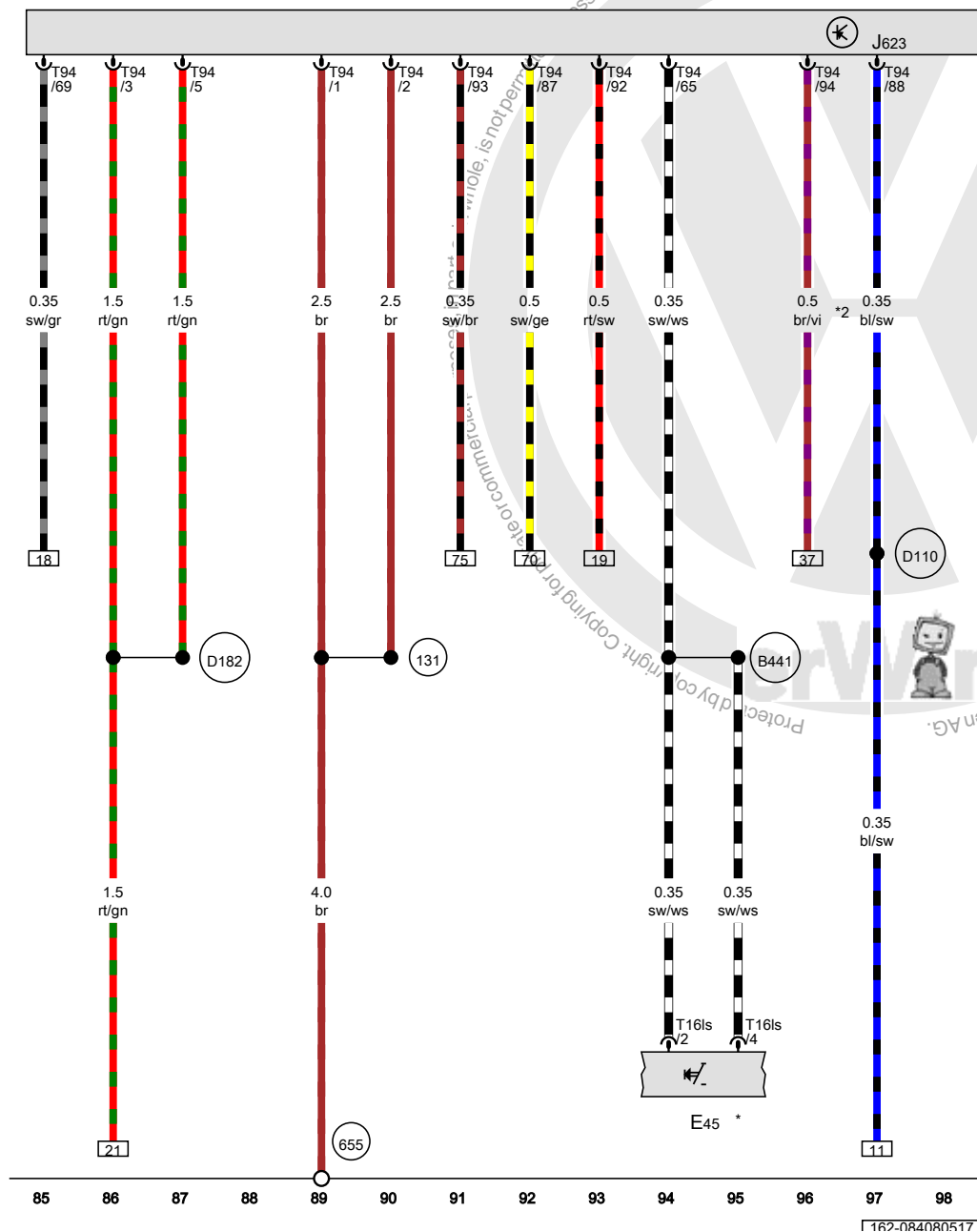
- 389 Ground Connection 24 (in Main Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * Omitted as a Running Change



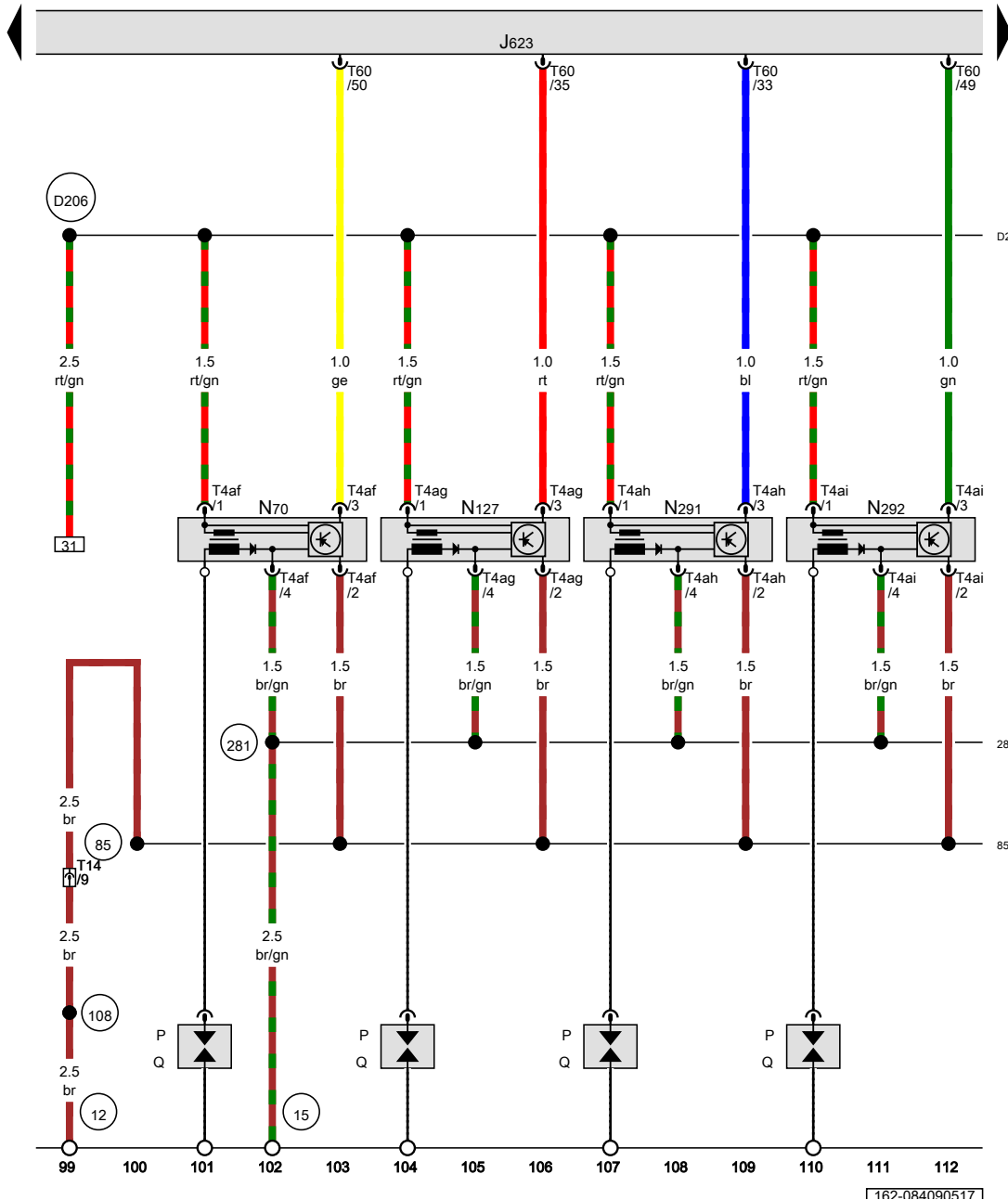
Engine Control Module

E45 Cruise Control Switch
J623 Engine Control Module
T16ls 16-Pin Connector
T94 94-Pin Connector

- 131 Ground Connection 2 (in Engine Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- B441 Cruise Control Connection (in Main Wiring Harness)
- D110 Connection 8 (in Engine Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine Compartment Wiring Harness)
- *2 For Vehicles with Cruise Control System Depending on Equipment



ws = white
sw = black
ro = red
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gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

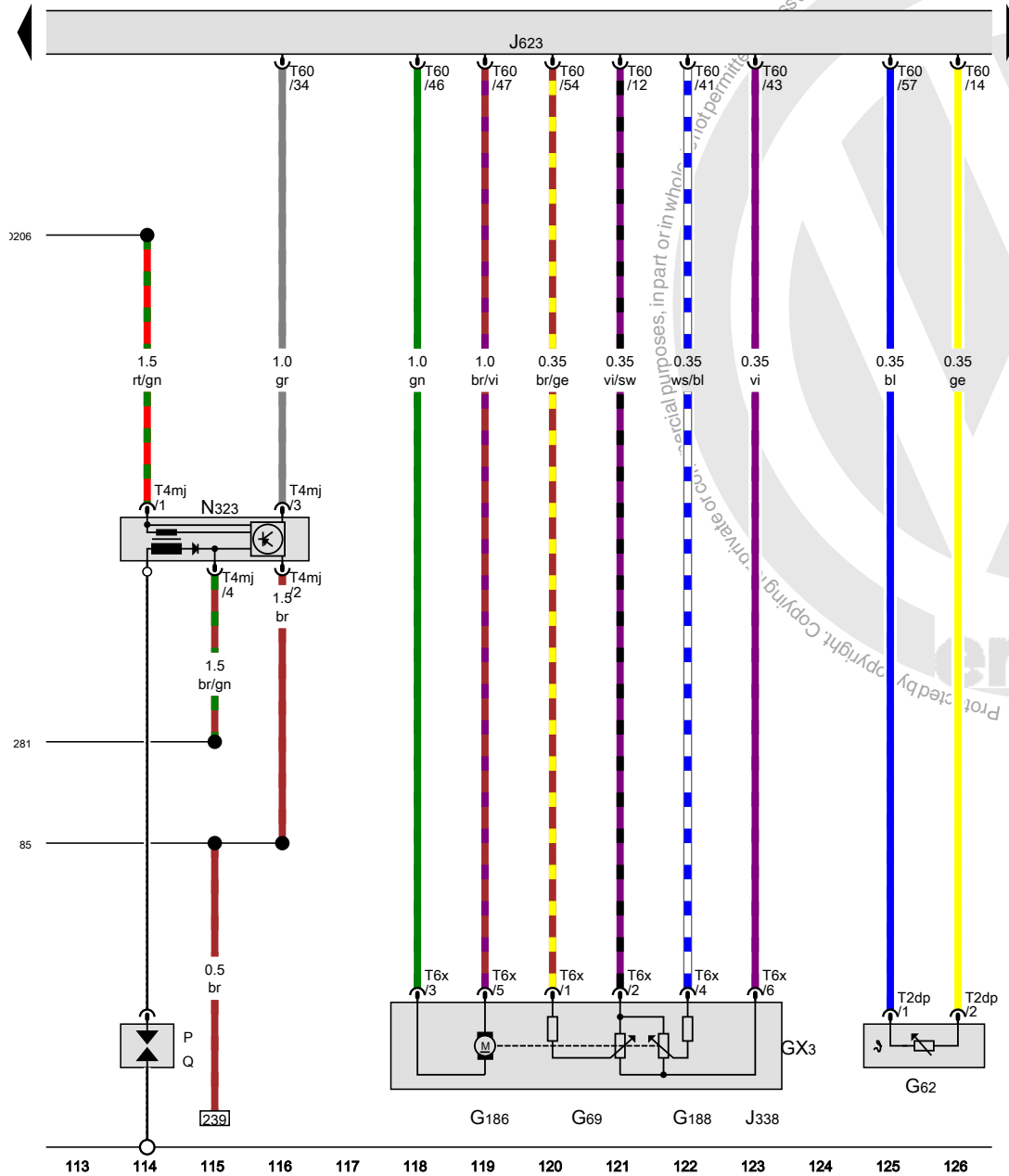


Engine Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors, Spark Plugs

- J623 Engine Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T14 14-Pin Connector, Near the Battery
- T60 60-Pin Connector

- 12 Ground Connection in Engine Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Throttle Valve Control Module, Engine Coolant Temperature Sensor, EPC Throttle Drive, Engine Control Module, Ignition Coil 5 with Power Output Stage, Spark Plug Connectors

- GX3 Throttle Valve Control Module
- G62 Engine Coolant Temperature Sensor
- G69 Throttle Position Sensor
- G186 EPC Throttle Drive
- G188 EPC Throttle Drive Angle Sensor 2
- J338 Throttle Valve Control Module
- J623 Engine Control Module
- N323 Ignition Coil 5 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2dp 2-Pin Connector
- T4mj 4-Pin Connector
- T6x 6-Pin Connector
- T60 60-Pin Connector

- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

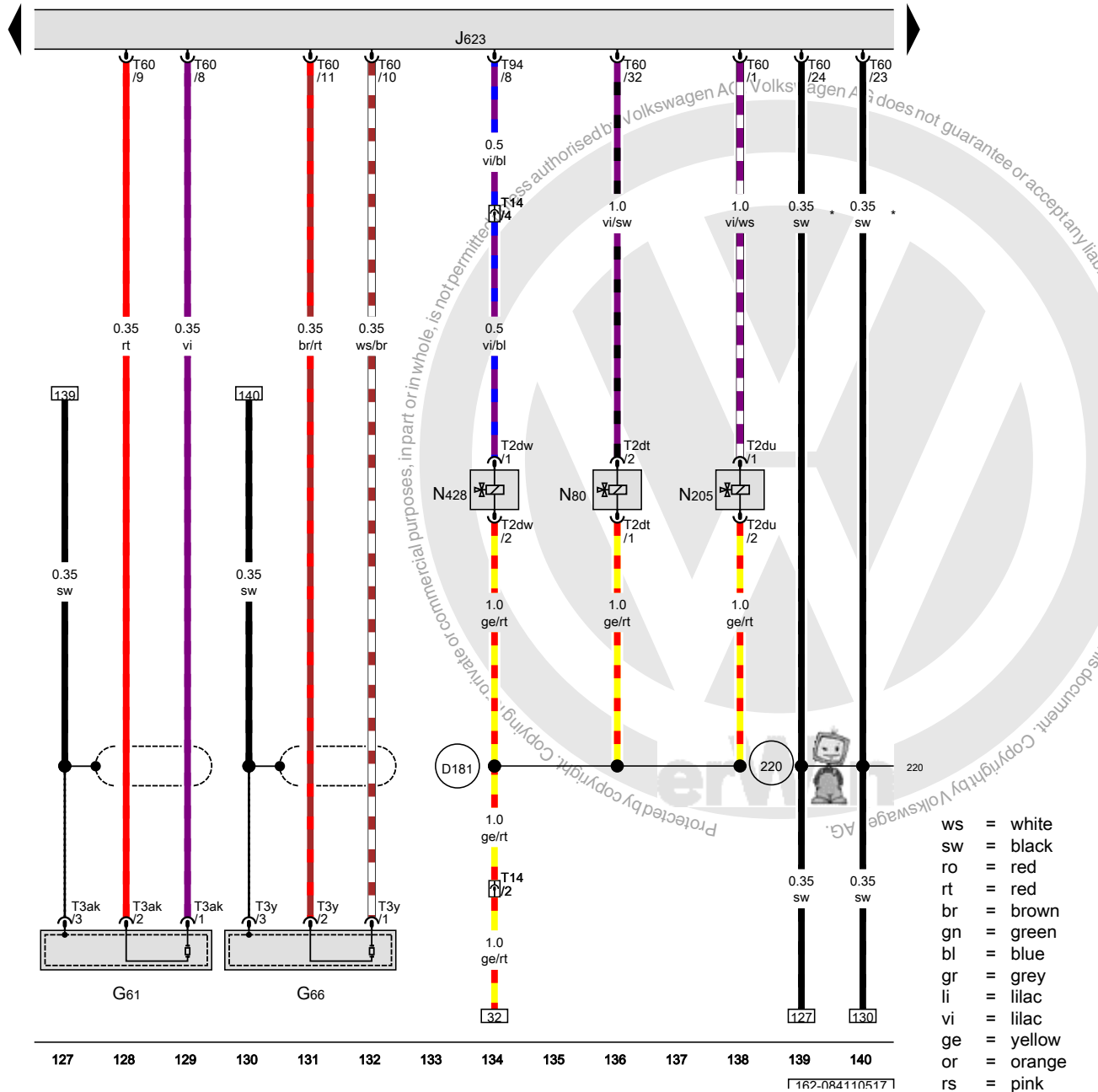
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- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

| | |
|------|---------------------------------------|
| G61 | Knock Sensor 1 |
| G66 | Knock Sensor 2 |
| J623 | Engine Control Module |
| N80 | EVAP Canister Purge Regulator Valve 1 |
| N205 | Camshaft Adjustment Valve 1 |
| N428 | Oil Pressure Regulation Valve |
| T2dt | 2-Pin Connector |
| T2du | 2-Pin Connector |
| T2dw | 2-Pin Connector |
| T3ak | 3-Pin Connector |
| T3y | 3-Pin Connector |
| T14 | 14-Pin Connector, Near the Battery |
| T60 | 60-Pin Connector |
| T94 | 94-Pin Connector |

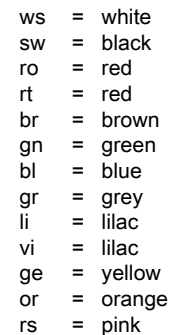
220 Sensor Ground Connection (in Engine Wiring Harness)

D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)

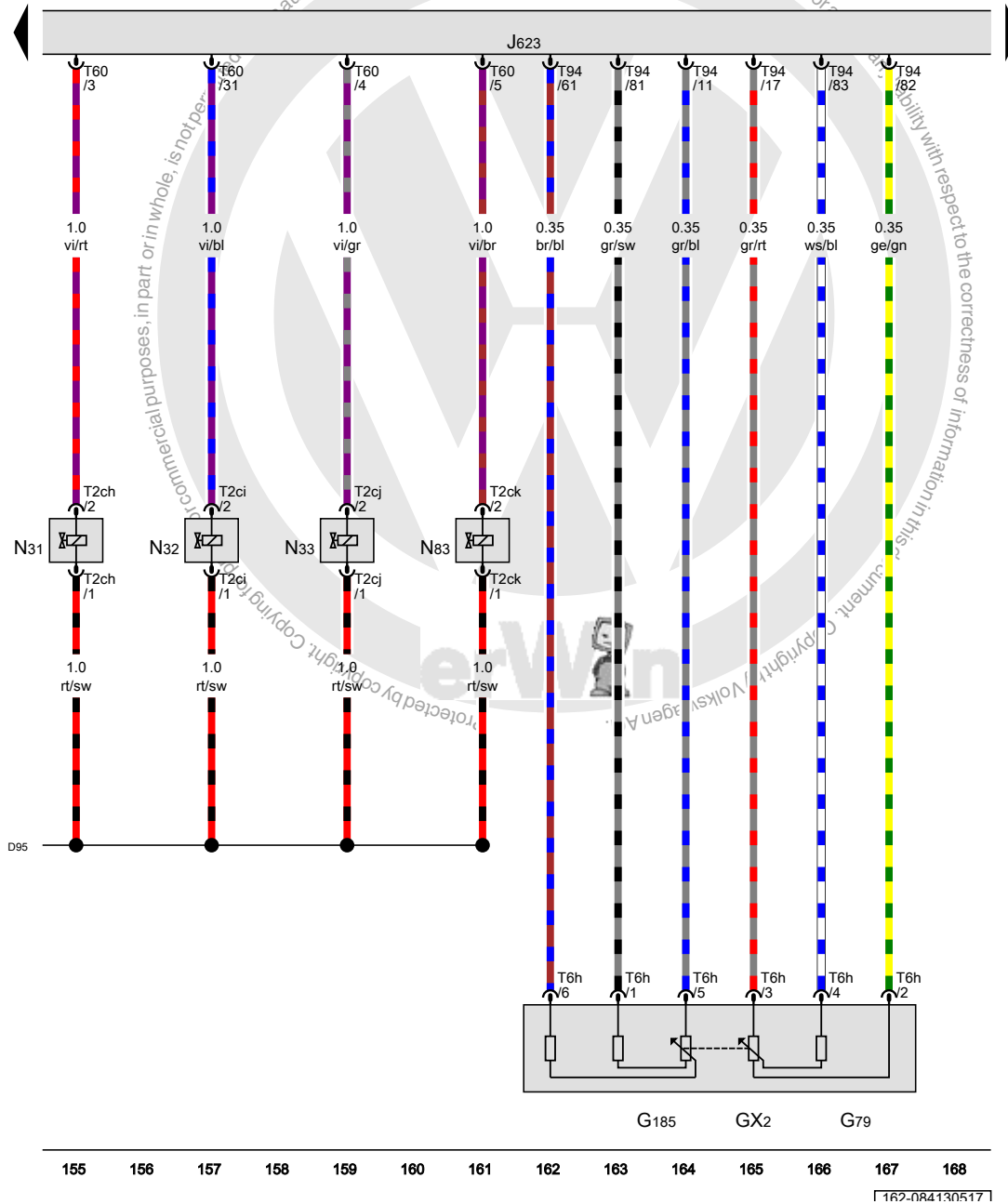
Wagon



ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
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li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink



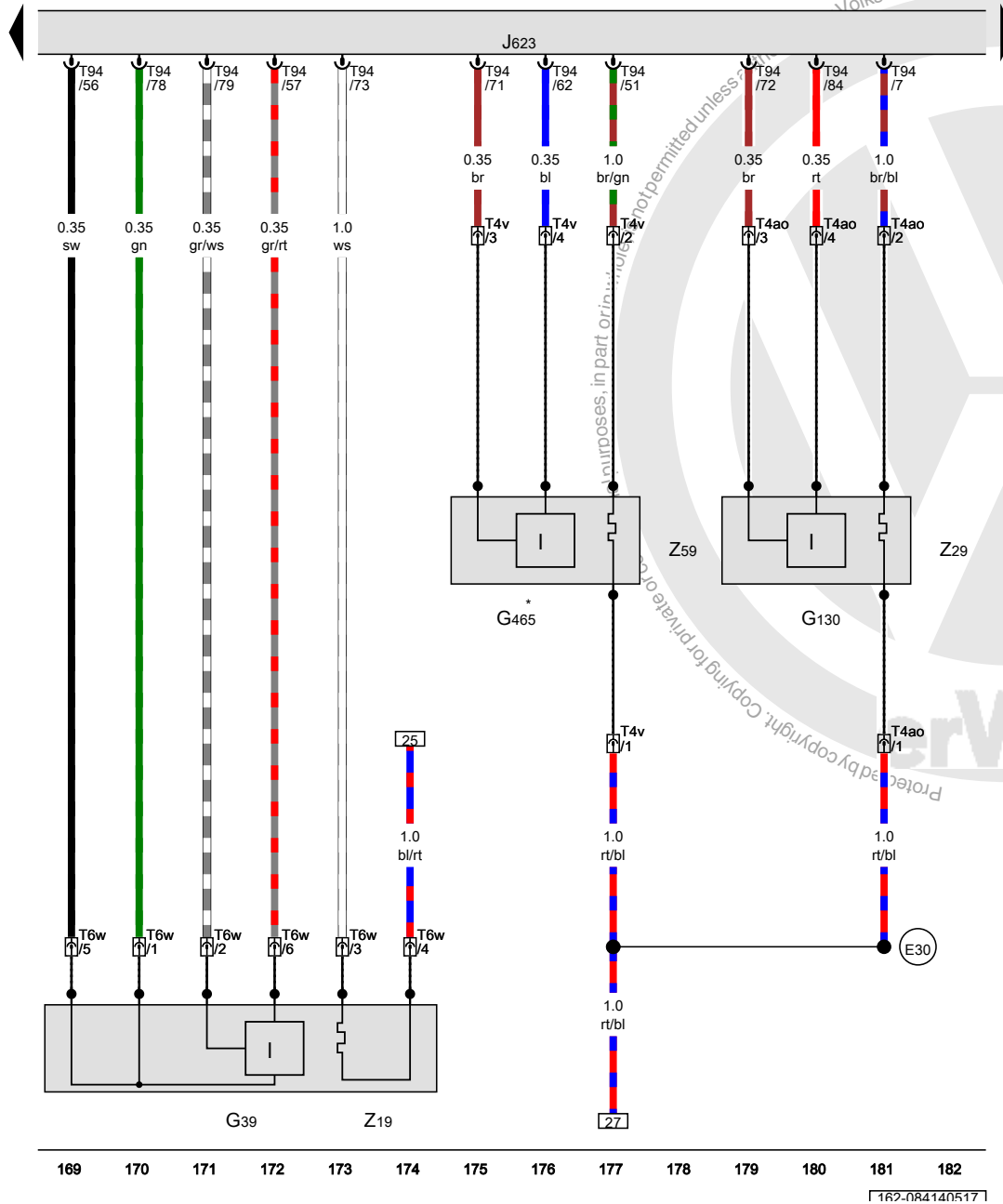
- | | |
|------|--|
| 220 | Sensor Ground Connection (in Engine Wiring Harness) |
| D95 | Injector Connection (in Engine Compartment Wiring Harness) |
| D101 | Connection 1 (in Engine Compartment Wiring Harness) |
| D107 | Connection 5 (in Engine Compartment Wiring Harness) |
| * | The Color of the Wires Depends on Vehicle Equipment |
| *2 | For USA Only |
| *3 | Depending on Equipment |



Accelerator Pedal Module, Accelerator Pedal Position Sensor 2, Engine Control Module, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, Cylinder 5 Fuel Injector

- GX2 Accelerator Pedal Module
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine Control Module
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N83 Cylinder 5 Fuel Injector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2ck 2-Pin Connector
- T6h 6-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- D95 Injector Connection (in Engine Compartment Wiring Harness)

ws = white
 sw = black
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 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



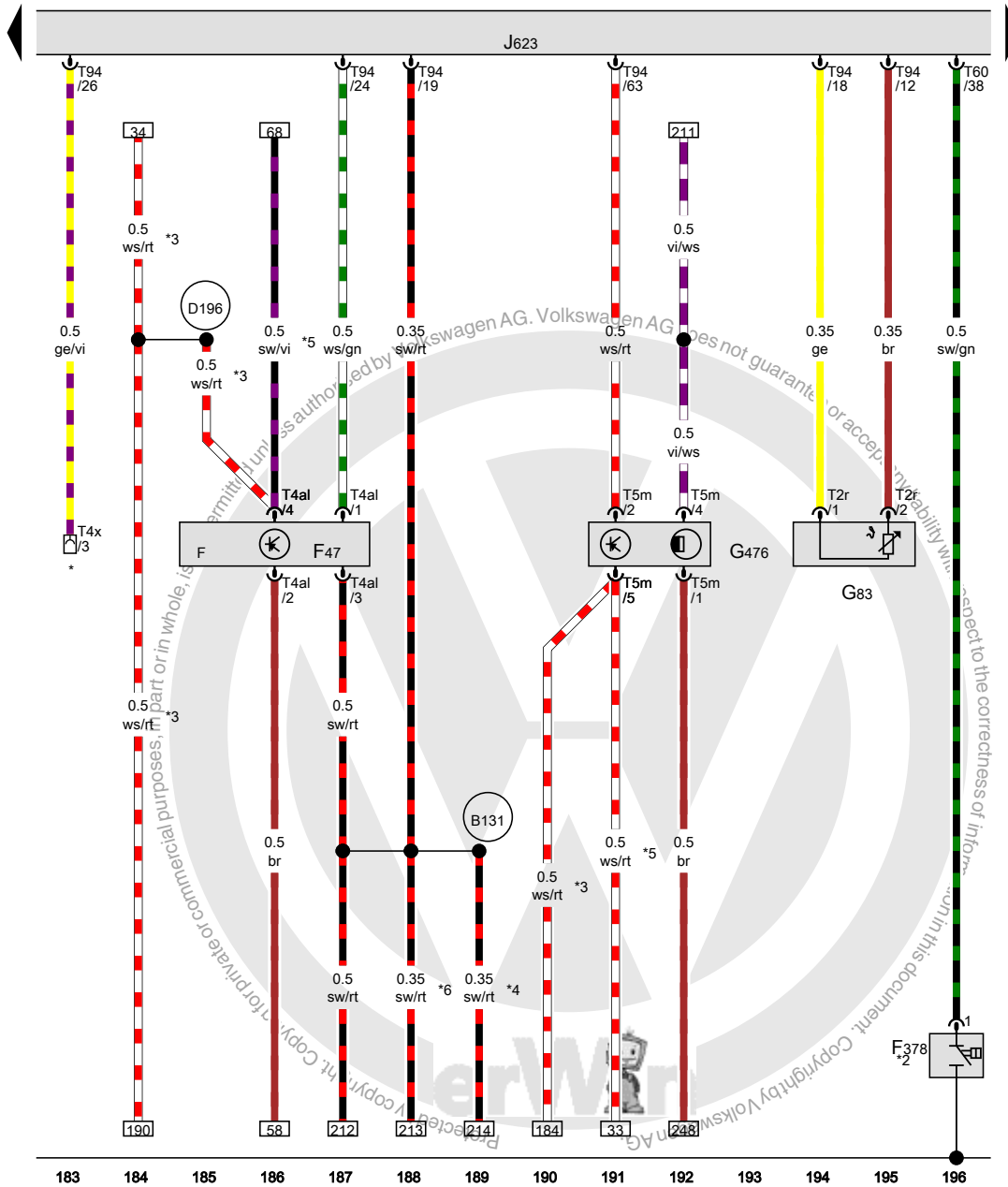
Heated Oxygen Sensor, Oxygen Sensor After Catalytic Converter, Center Oxygen Sensor for Bank 1 Catalytic Converter, Engine Control Module, Oxygen Sensor Heater, Heater for Oxygen Sensor 1 After Catalytic Converter, Heater for Oxygen Sensor Center Catalytic Converter

- G39 Heated Oxygen Sensor
- G130 Oxygen Sensor After Catalytic Converter
- G465 Center Oxygen Sensor for Bank 1 Catalytic Converter
- J623 Engine Control Module
- T4ao 4-Pin Connector
- T4v 4-Pin Connector
- T6w 6-Pin Connector
- T94 94-Pin Connector
- Z19 Oxygen Sensor Heater
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- Z59 Heater for Oxygen Sensor Center Catalytic Converter

E30 Connection 87A (in Engine Wiring Harness)

* Depending on Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Brake Lamp Switch, Brake Pedal Switch, Reduced Oil Pressure Switch, Engine Coolant Temperature Sensor on Radiator Outlet, Clutch Position Sensor, Engine Control Module

- F Brake Lamp Switch
- F47 Brake Pedal Switch
- F378 Reduced Oil Pressure Switch
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- G476 Clutch Position Sensor
- J623 Engine Control Module
- T2r 2-Pin Connector
- T4al 4-Pin Connector
- T4x 4-Pin Connector
- T5m 5-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector

B131 Connection 54 (in Interior Wiring Harness)

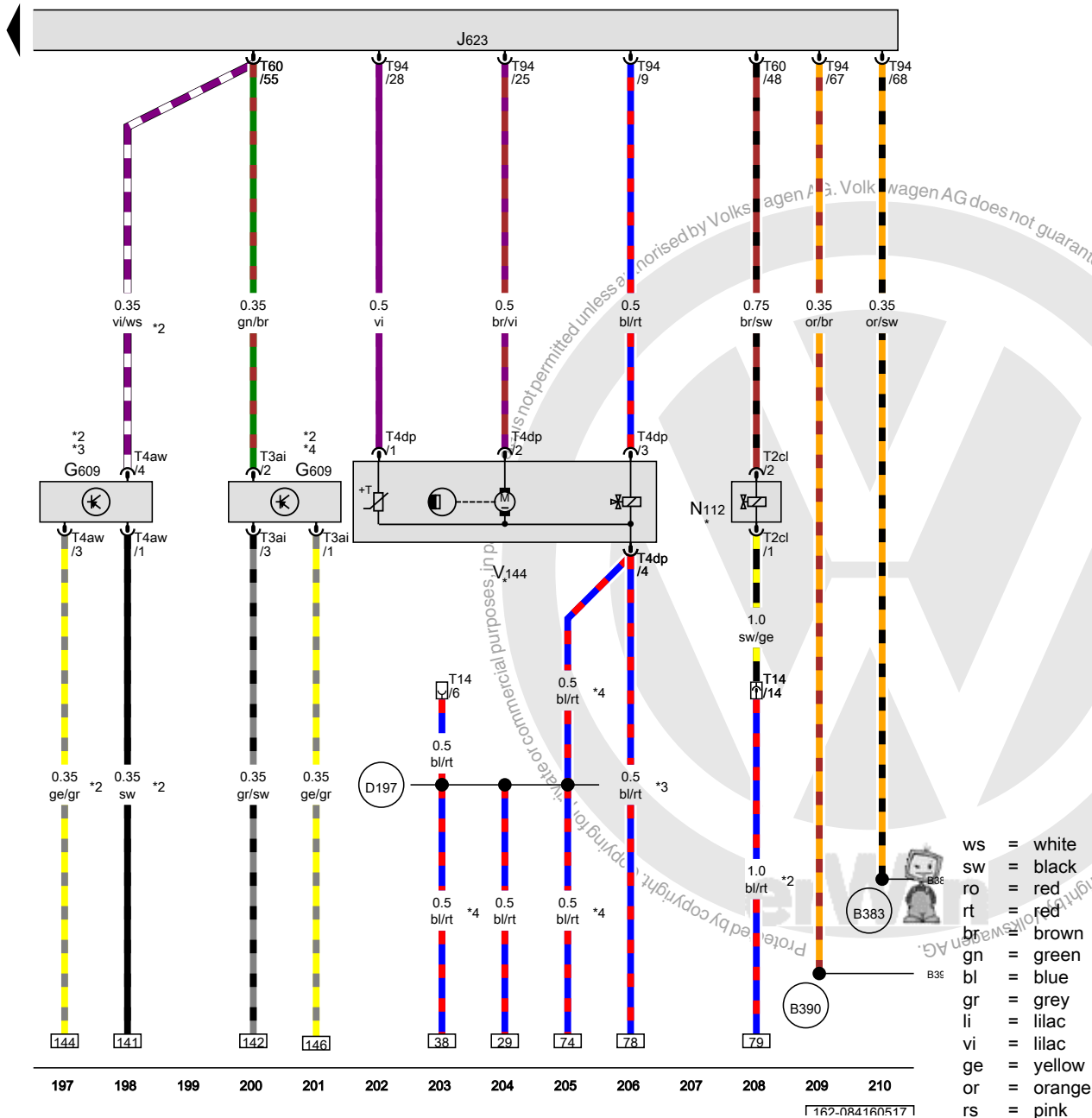
D196 Connection 87A (in Engine Pre-Wiring Harness) 2

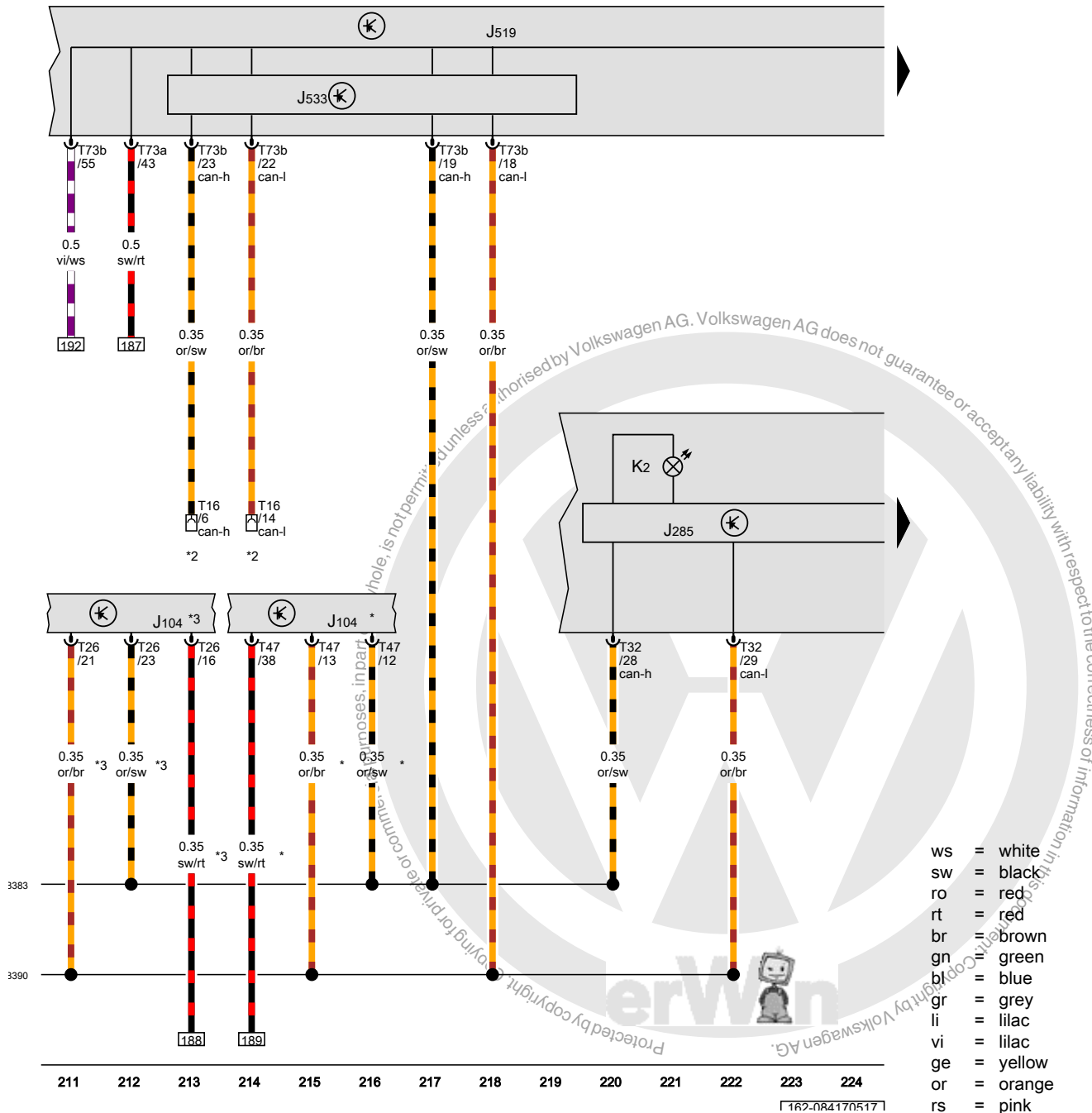
- * Radiator Fan Connection
- *2 Depending on Equipment
- *3 Running Change
- *4 For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *5 Omitted as a Running Change
- *6 For Vehicles with ABS Without ESP

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-084150517

**Secondary Air Injection Sensor 1, Engine Control Module,
Secondary Air Injection Solenoid Valve, Leak Detection
Pump**



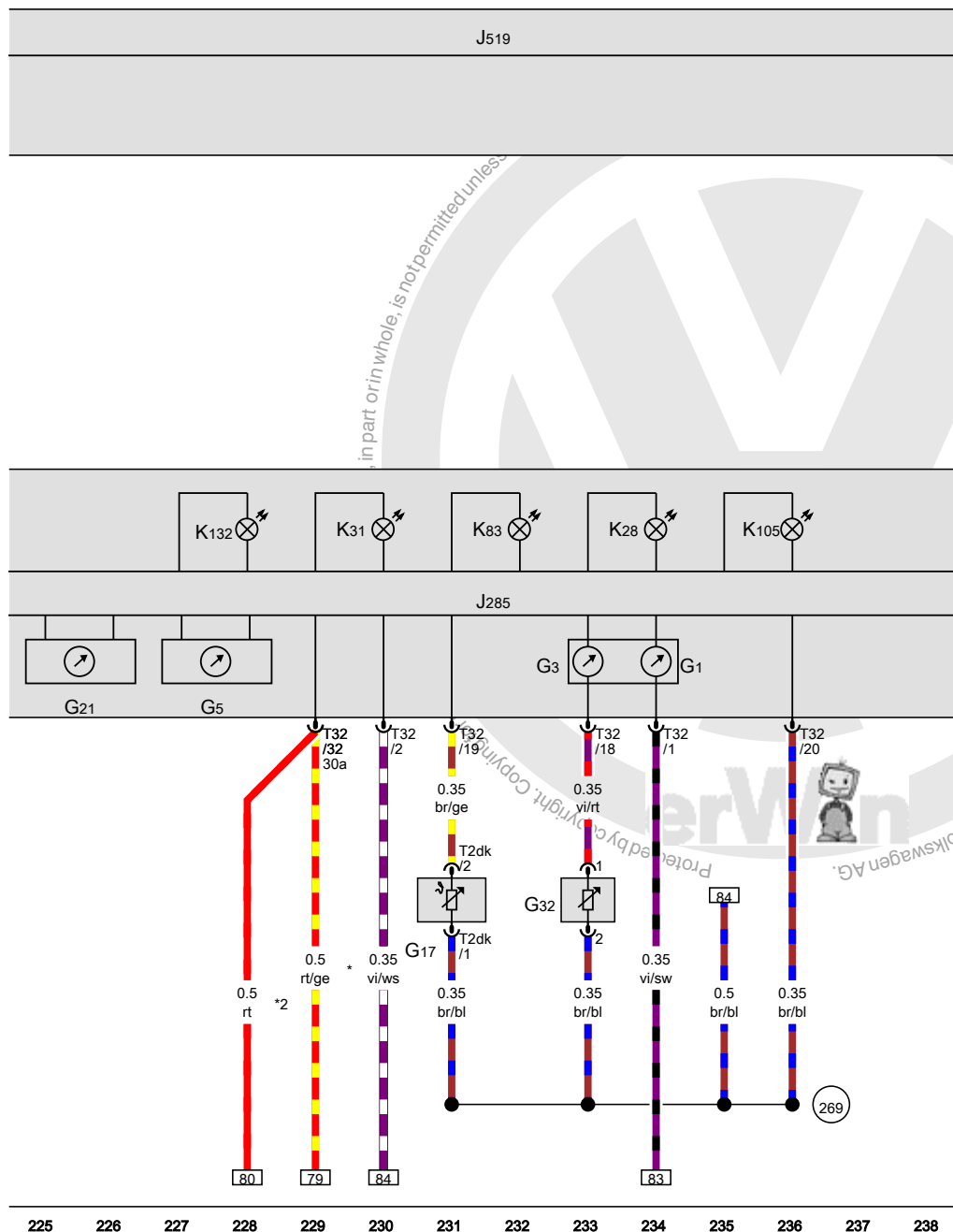


Instrument Cluster Control Module, Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Generator Indicator Lamp

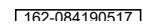
- J104 ABS Control Module
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- K2 Generator Indicator Lamp
- T16 16-Pin Connector
- T26 26-Pin Connector
- T32 32-Pin Connector
- T47 47-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 Diagnostic Connector
- *3 For Vehicles with ABS Without ESP

Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G17 Outside Air Temperature Sensor
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T2dk 2-Pin Connector
- T32 32-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- * Omitted as a Running Change
- *2 Running Change



- ws = white
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- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



| | |
|------|--|
| F1 | Oil Pressure Switch |
| G266 | Oil Level Thermal Sensor |
| H3 | Warning Buzzer and Tone |
| J285 | Instrument Cluster Control Module |
| J519 | Vehicle Electrical System Control Module |
| K3 | Oil Pressure Indicator Lamp |
| T6z | 6-Pin Connector, Near the Left Headlamp |
| T14 | 14-Pin Connector |
| T32 | 32-Pin Connector |
| T73a | 73-Pin Connector |
| T73b | 73-Pin Connector |
| 132 | Ground Connection 3 (in Engine Compartment Wiring Harness) |
| 367 | Ground Connection 2 (in Main Wiring Harness) |
| 376 | Ground Connection 11 (in Main Wiring Harness) |
| 605 | Ground Connection on Upper Steering Column |
| 655 | Ground Connection on Left Headlamp |
| * | For Vehicles with Flexible Service Interval Display |

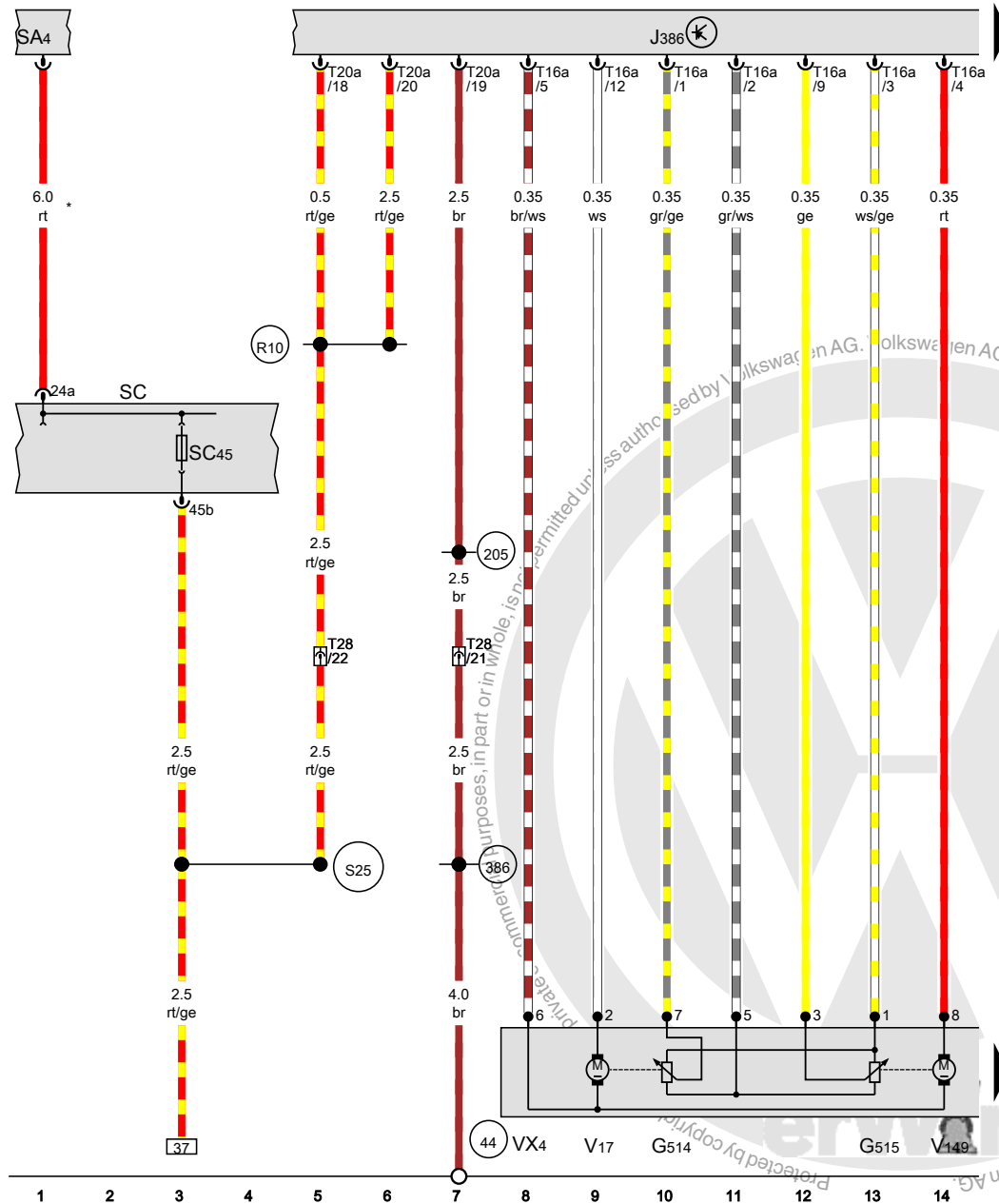
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Exterior mirrors, heated , (6XG),(6XN),(6XP)

from June 2010

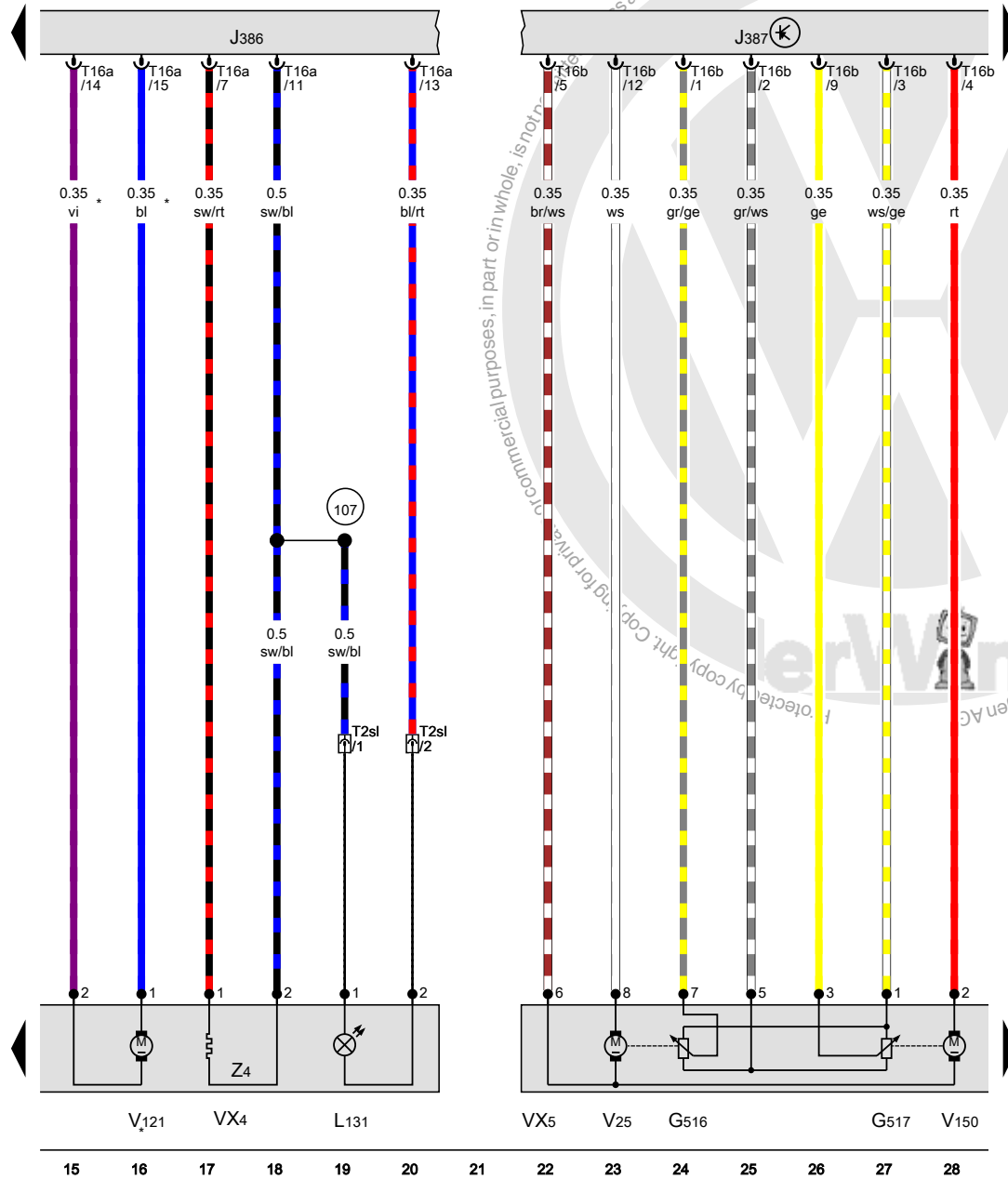


Driver door control module, Fuse panel C, Driver exterior rearview mirror



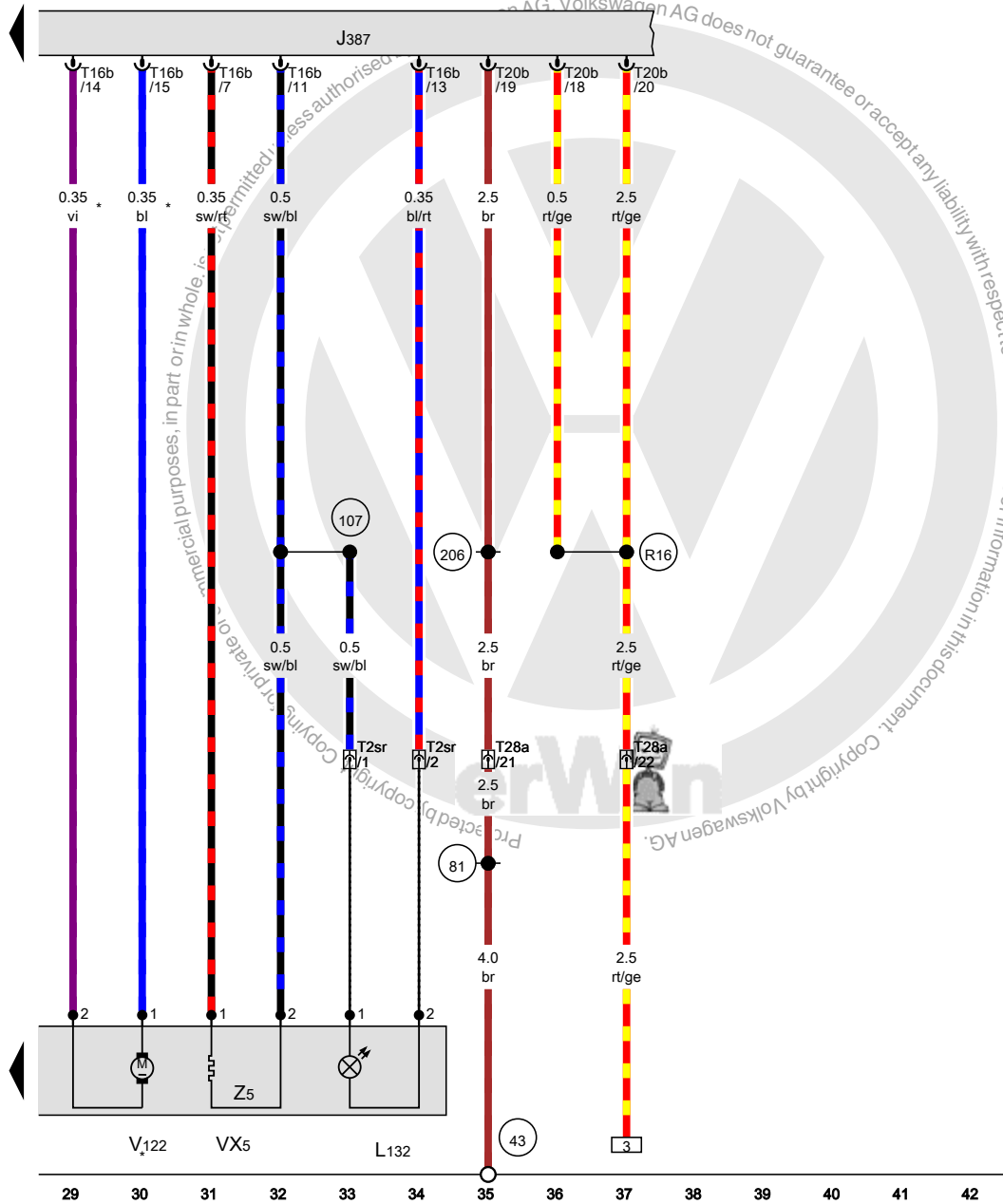
- G514 Driver exterior rearview mirror horizontal position sensor
- G515 Driver exterior rearview mirror vertical position sensor
- J386 Driver door control module
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC45 Fuse 45 (on fuse panel C)
- T16a 16-pin connector
- T20a 20-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- VX4 Driver exterior rearview mirror
- V17 Driver mirror adjustment motor 2
- V149 Driver mirror adjustment motor

- 44 Ground connection on A-pillar, lower left
- 205 Ground connection (in driver door wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- R10 Positive connection 1 (30) (in driver door wiring harness)
- S25 Positive connection (30a) (in central locking system wiring harness)
- * Refer to applicable standard equipment wiring diagram



Driver door control module, Front passenger door control module, Driver exterior rearview mirror, Front passenger exterior rearview mirror

- G516 Front passenger exterior rearview mirror horizontal position sensor
- G517 Front passenger exterior rearview mirror vertical position sensor
- J386 Driver door control module
- J387 Front passenger door control module
- L131 Driver exterior rearview mirror turn signal bulb
- T2sl Double connector, in the driver exterior rearview mirror housing
- T16a 16-pin connector
- T16b 16-pin connector
- VX4 Driver exterior rearview mirror
- VX5 Front passenger exterior rearview mirror
- V25 Front passenger side mirror adjustment motor 2
- V121 Driver exterior rearview mirror folding motor
- V150 Front passenger mirror adjustment motor
- Z4 Heated driver exterior rearview mirror
- 107 Ground connection (in exterior mirror wiring harness), in the left door, near the exterior rearview mirror
- Depending on equipment



Front passenger door control module, Front passenger exterior rearview mirror

- J387 Front passenger door control module
- L132 Front passenger exterior rearview mirror turn signal bulb
- T2sr Double connector, in the front passenger exterior rearview mirror housing
- T16b 16-pin connector
- T20b 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- VX5 Front passenger exterior rearview mirror
- V122 Front passenger exterior rearview mirror folding motor
- Z5 Heated front passenger exterior rearview mirror

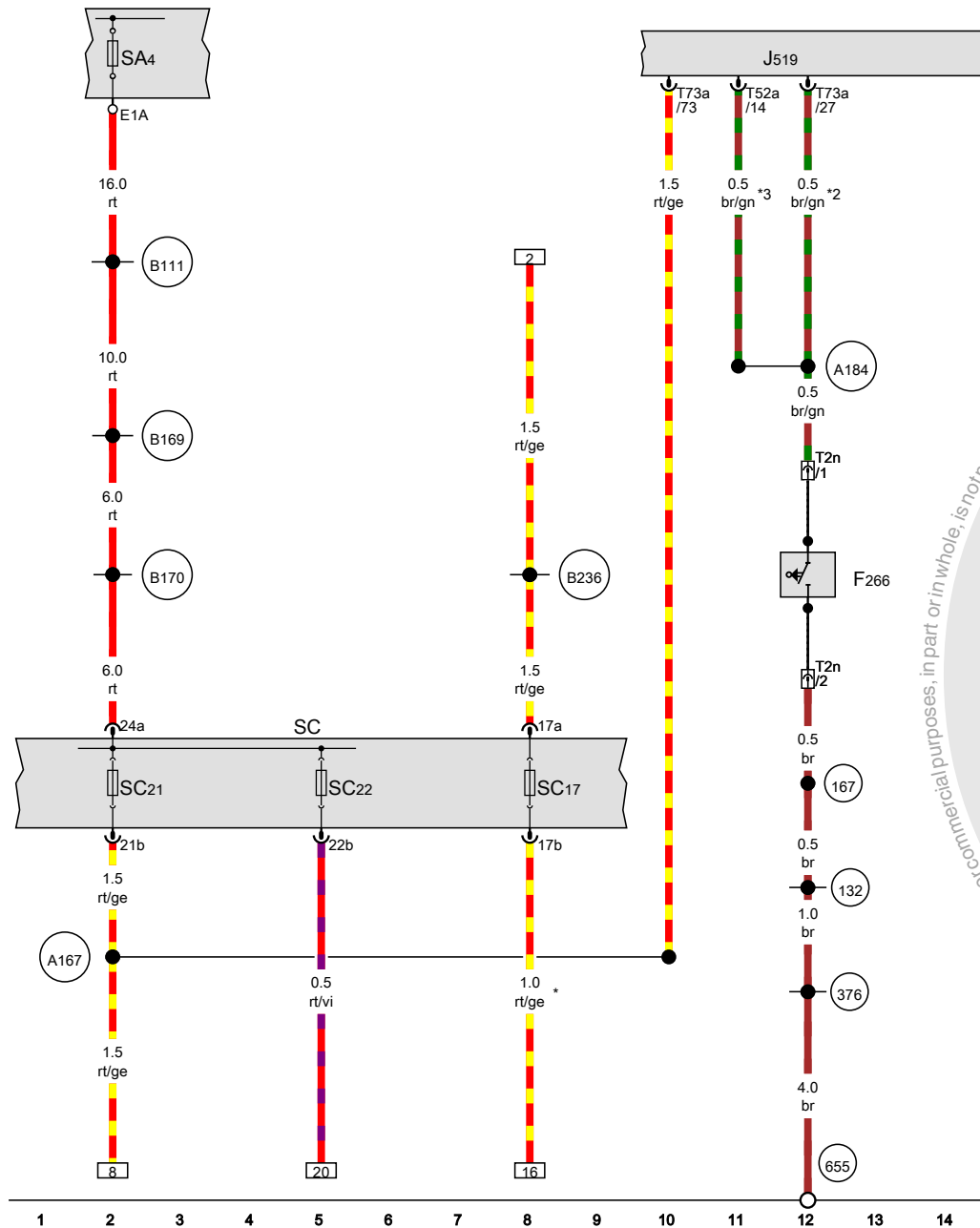
- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 107 Ground connection (in exterior mirror wiring harness), in the right door, near the exterior rearview mirror
- 206 Ground connection (in front passenger door wiring harness)
- R16 Positive connection 1 (30) (in front passenger door wiring harness)
- * Depending on equipment

Anti-theft alarm system , (7AG),(7AZ),(9V5)

from January 2011



Vehicle electrical control module system, Fuse panel C



- F266 Engine hood contact switch
- J519 Vehicle electrical control module system
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC17 Fuse 17 (on fuse panel C)
- SC21 Fuse 21 (on fuse panel C)
- SC22 Fuse 22 (on fuse panel C)
- T2n Double connector
- T52a 52-pin connector
- T73a 73-pin connector
- 132 Ground connection 3 (in engine compartment wiring harness)
- 167 Ground connection 4 (in engine compartment wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- A167 Positive connection 3 (30a) (in instrument panel wiring harness)
- A184 Hood contact switch connection (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B236 Positive connection 6 (30a) (in interior wiring harness)
- * Running change
- *2 only for vehicles with Low equipment (AW0)
- *3 only for vehicles with High equipment (AW1)

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

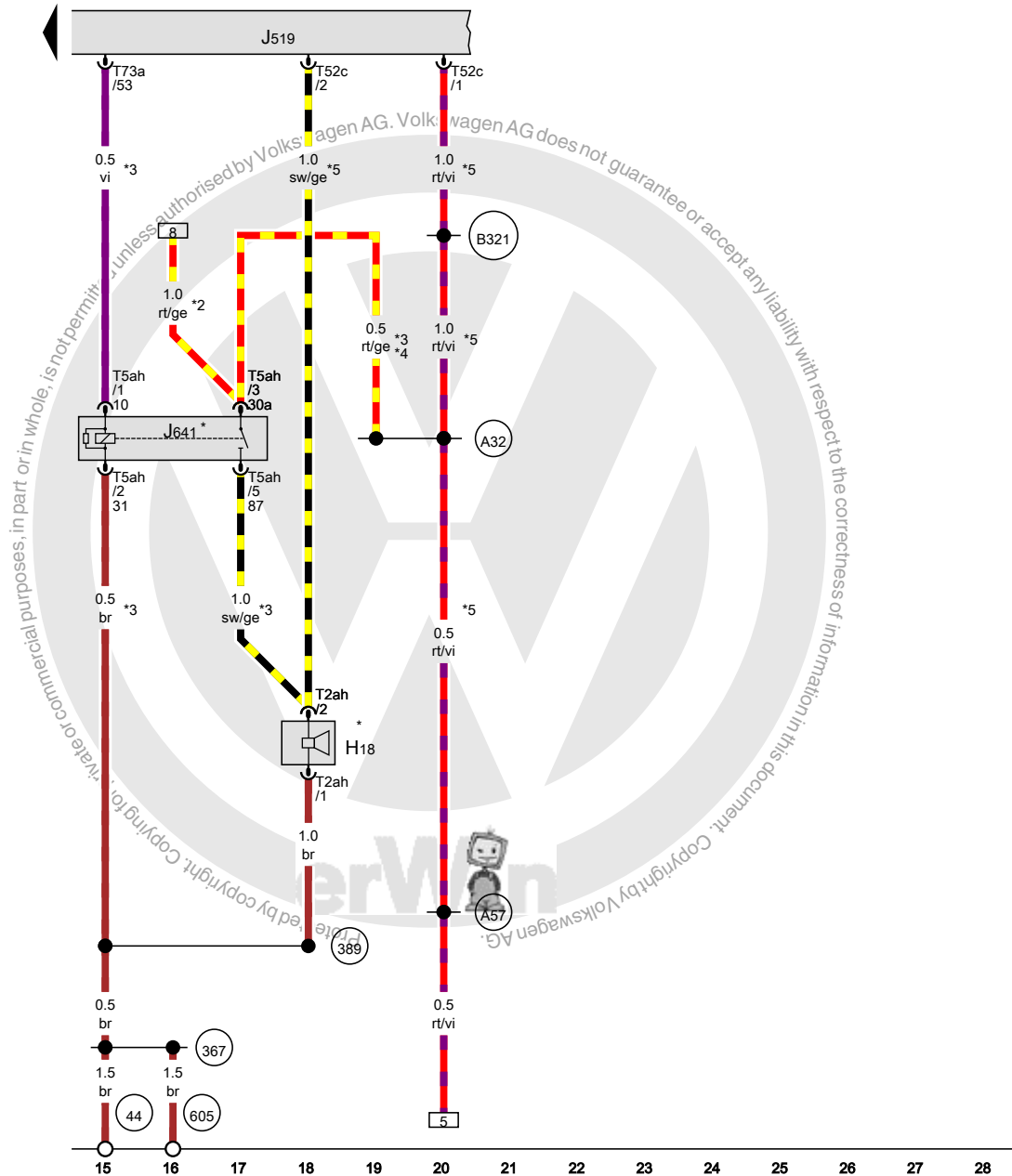
Vehicle electrical control module system

- H18 Alarm system horn
- J519 Vehicle electrical control module system
- J641 Alarm horn relay
- T2ah Double connector
- T5ah 5-pin connector
- T52c 52-pin connector
- T73a 73-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- A32 Positive connection (30) (in instrument panel wiring harness)
- A57 Positive connection 3 (30) (in instrument panel wiring harness)
- B321 Positive connection 7 (30a) (in main wiring harness)

- * Not included in the preparation
- *2 Running change
- *3 only for vehicles with Low equipment (AW0)
- *4 Omitted as a running change
- *5 only for vehicles with High equipment (AW1)

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- gr = grey
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink



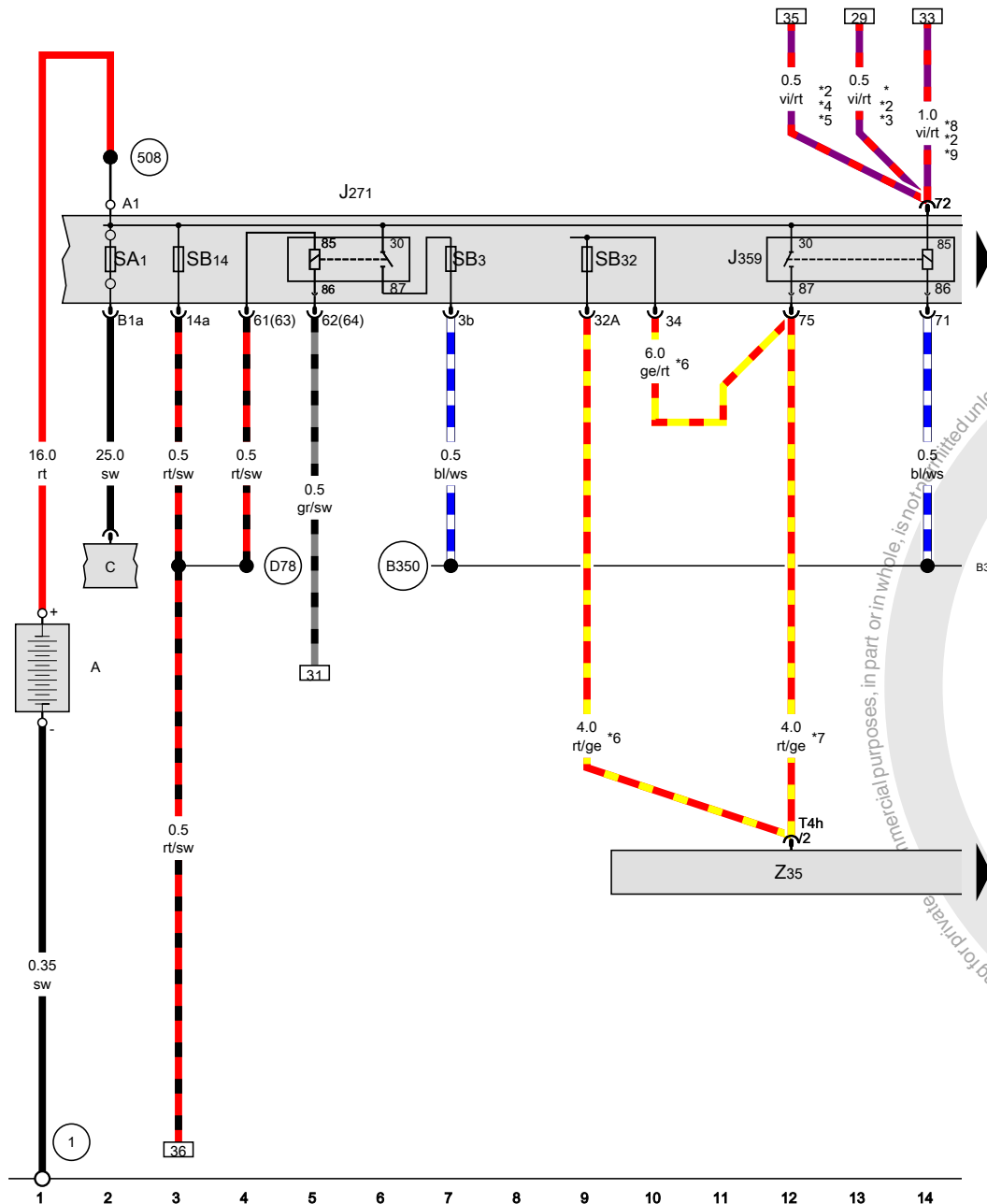
162-087030115

Auxiliary Air Heater (PTC) , CAVA,CAVD,CAXA,CAYC,CBZA,CBZB,CFFB,CJAA,CLCA,CMSB,CTHA,CTHD,(7E6)

From June 2013



Motronic Engine Control Module Power Supply Relay, Low Heat Output Relay, Auxiliary Heater Heating Element



- A Battery
- C Generator
- J271 Motronic Engine Control Module Power Supply Relay
- J359 Low Heat Output Relay
- SA1 Fuse 1 (On Fuse Panel A)
- SB3 Fuse 3 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- SB32 Fuse 32 (On Fuse Panel B)
- T4h 4-Pin Connector
- Z35 Auxiliary Heater Heating Element

- 1 Ground Cable; Battery to Body
- 508 Terminal 30 Threaded Connection (On E-Box)
- B350 Positive Connection 1 (87a) (in Main Wiring Harness)
- D78 Positive Connection 1 (30a) (in Engine/Motor Compartment Wiring Harness)
- * The Color of the Wires Depends on Vehicle Equipment
- *2 Refer to Applicable Engine Wiring Diagram
- *3 For Vehicles with a 1.4L Engine
- *4 For Emissions Standard Euro 6
- *5 Depending on Equipment
- *6 Running Change
- *7 Omitted as a Running Change
- *8 Diameter Depends on Equipment
- *9 For Vehicles with a 1.2L Engine

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High Heat Output Relay, Auxiliary Heater Heating Element

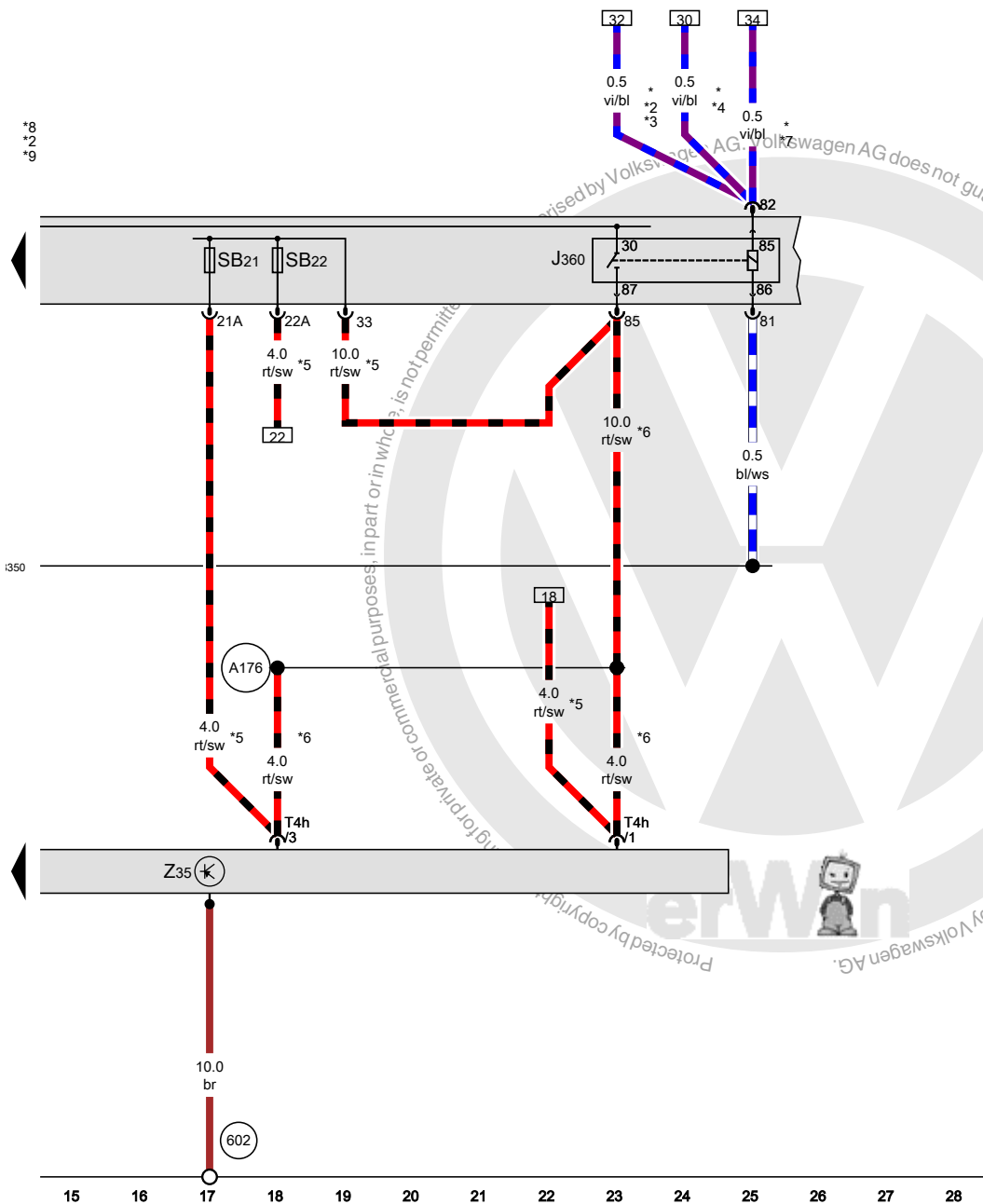
- J360 High Heat Output Relay
- SB21 Fuse 21 (On Fuse Panel B)
- SB22 Fuse 22 (On Fuse Panel B)
- T4h 4-Pin Connector
- Z35 Auxiliary Heater Heating Element

602 Ground Connection in Left Front Footwell

A176 Auxiliary Heater Connection (in Instrument Panel Wiring Harness)

B350 Positive Connection 1 (87a) (in Main Wiring Harness)

- * Refer to Applicable Engine Wiring Diagram
- *2 For Emissions Standard Euro 6
- *3 Depending on Equipment
- *4 For Vehicles with a 1.4L Engine
- *5 Running Change
- *6 Omitted as a Running Change
- *7 For Vehicles with a 1.2L Engine



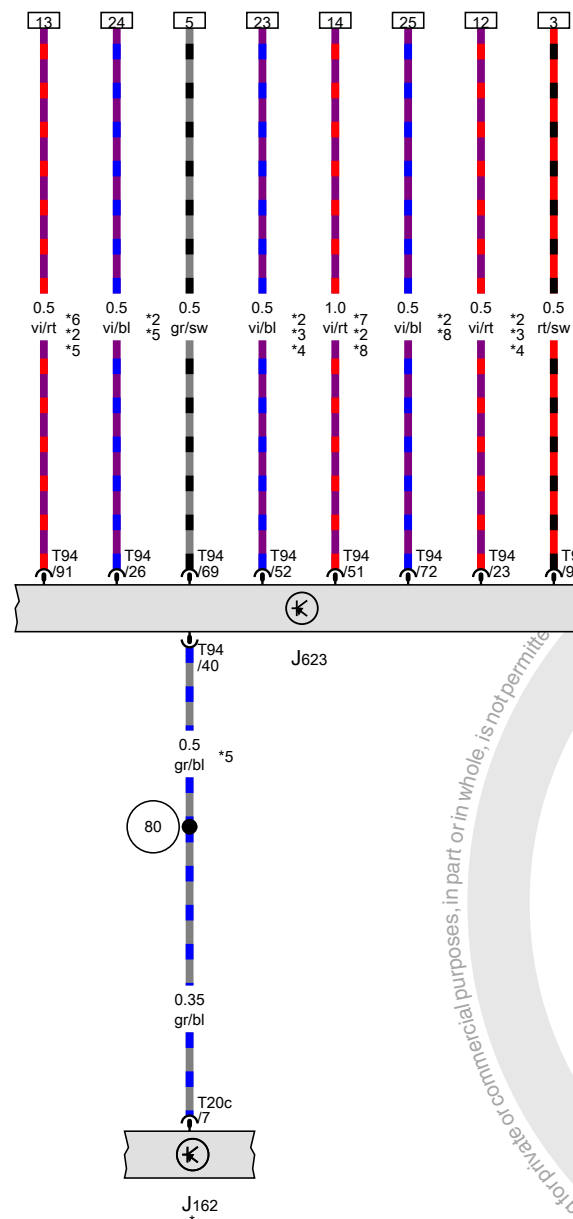
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Heater Control Module, Engine/Motor Control Module

J162 Heater Control Module
J623 Engine/Motor Control Module
T20c 20-Pin Connector
T94 94-Pin Connector

80 Ground Connection 1 (in Instrument Cluster Wiring Harness)

- * Refer to the Applicable Wiring Diagram for Heating with Manual Control
- *2 Refer to Applicable Engine Wiring Diagram
- *3 For Emissions Standard Euro 6
- *4 Depending on Equipment
- *5 For Vehicles with a 1.4L Engine
- *6 The Color of the Wires Depends on Vehicle Equipment
- *7 Diameter Depends on Equipment
- *8 For Vehicles with a 1.2L Engine

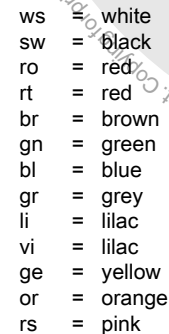


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Power socket 12V, cigarette lighter

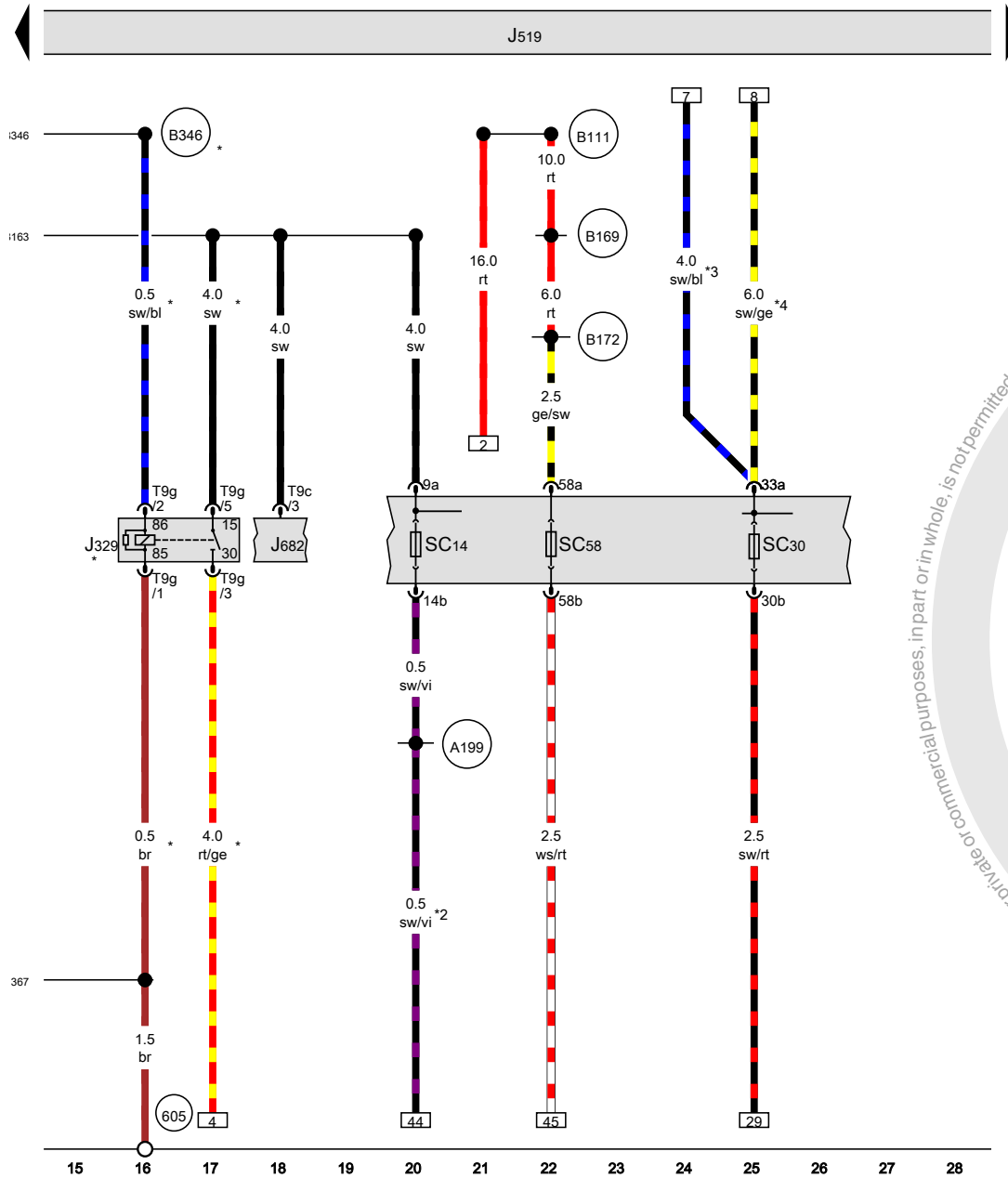
from June 2011





| | |
|------|--|
| A | Battery |
| C | Generator |
| J519 | Vehicle electrical system control module |
| J680 | Terminal 75 power supply relay 1 |
| J681 | Terminal 15 power supply relay 2 |
| J935 | Converter box |
| SA1 | Fuse 1 (on fuse panel A) |
| SA4 | Fuse 4 (on fuse panel A) |
| SB | Fuse panel B |
| SB25 | Fuse 25 (on fuse panel B) |
| SB30 | Fuse 30 (on fuse panel B) |
| T9f | 9-pin connector |
| T9x | 9-pin connector |
| T10i | 10-pin connector |
| T52b | 52-pin connector |

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B218 Positive connection 6 (30) (in interior wiring harness)
- B346 Connection 75 (in main wiring harness) 1
 - * only for vehicles with Low equipment (AW0)
 - *2 6,0 diameter possible
 - *3 only for vehicles with High equipment (AW1)
 - *4 Diameter depends on equipment
 - *5 Omitted as a running change
 - *6 Running change

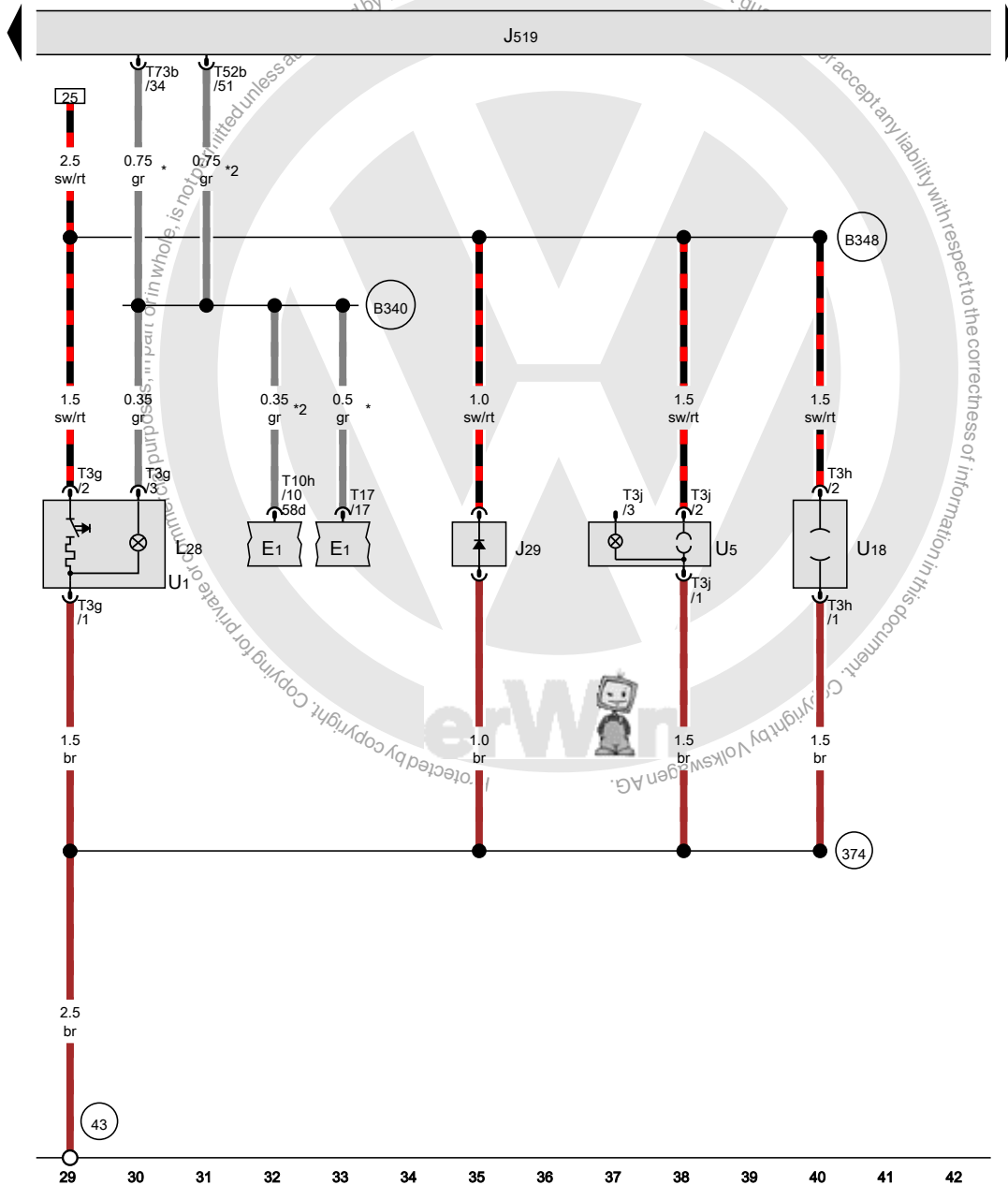


Terminal 15 power supply relay

- J329 Terminal 15 power supply relay
- J519 Vehicle electrical system control module
- J682 Terminal 50 power supply relay
- SC14 Fuse 14 (on fuse panel C)
- SC30 Fuse 30 (on fuse panel C)
- SC58 Fuse 58 (on fuse panel C)
- T9c 9-pin connector
- T9g 9-pin connector

- 367 Ground connection 2 (in main wiring harness)
- 605 Ground connection on upper steering column
- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B346 Connection 75 (in main wiring harness) 1
- * only for vehicles with Low equipment (AW0)
- *2 Only for vehicles with Start/Stop system
- *3 Omitted as a running change
- *4 Running change

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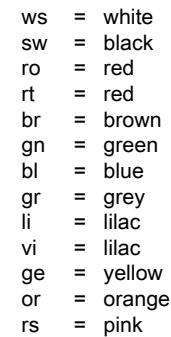
Blocking diode, Cigarette lighter, Power socket 12 V, 12 V socket 2

- E1 Light switch
- J29 Blocking diode, in the interior wiring harness
- J519 Vehicle electrical system control module
- L28 Cigarette lighter illumination bulb
- T3g 3-pin connector
- T3h 3-pin connector
- T3j 3-pin connector
- T10h 10-pin connector
- T17 17-pin connector
- T52b 52-pin connector
- T73b 73-pin connector
- U1 Cigarette lighter
- U5 Power socket 12 V
- U18 12 V socket 2

- 43 Ground connection on A-pillar, lower right
- 374 Ground connection 9 (in main wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- B348 Connection 75a (in main wiring harness) 1
- * only for vehicles with Low equipment (AW0)
- *2 only for vehicles with High equipment (AW1)

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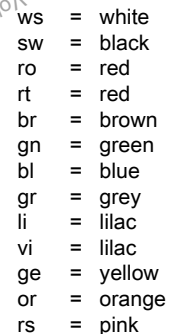
| No. 89 / 5 | |
|--|---|
| Socket indicator lamp, Converter with socket, 12 V-230 V, Converter with socket, 12 V-115 V | |
| J519 | Vehicle electrical system control module |
| K76 | Socket indicator lamp |
| T3wr | 3-pin connector |
| T52c | 52-pin connector |
| U11 | Interior socket, 230 V, 110 V |
| U13 | Converter with socket, 12 V-230 V |
| U27 | Converter with socket, 12 V-115 V |
| 602 | Ground connection in left front footwell |
| B177 | Connection 61 (in interior wiring harness) |
| * | Not for USA |
| *2 | USA only |
| *3 | Only for vehicles with Start/Stop system |
| *4 | Only for vehicles without Start/Stop system |



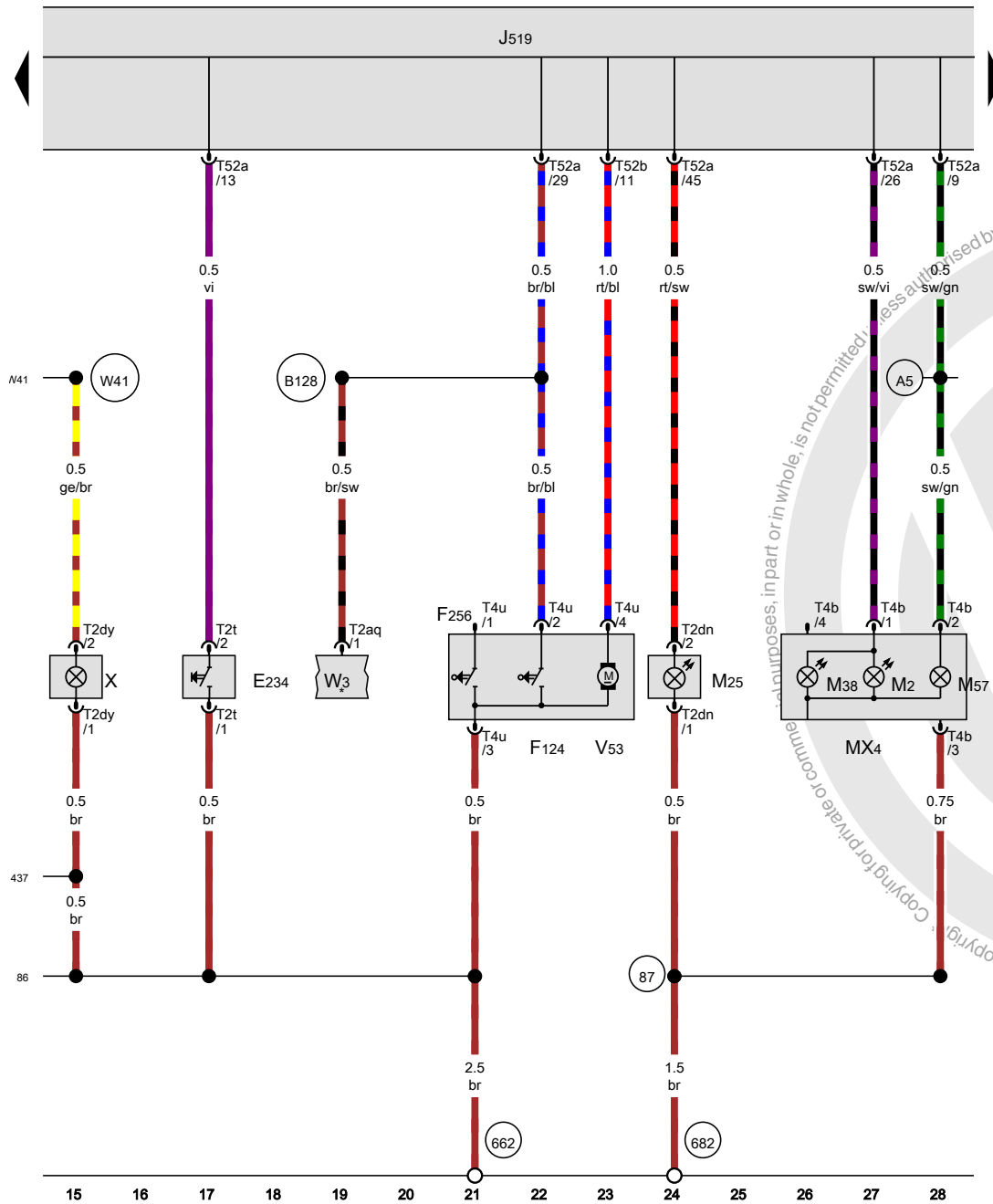
Tail lamps with LEDs , (8SL)

from June 2012





* Depending on equipment

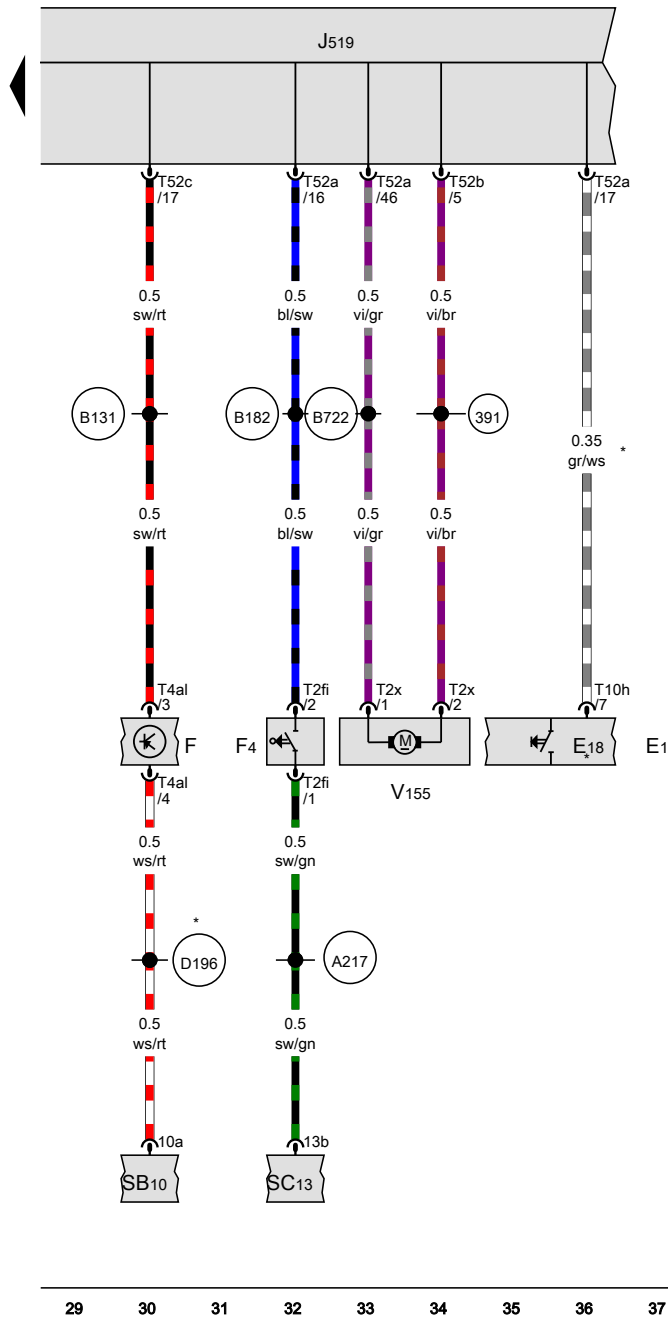


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Release button in rear lid handle, Rear lid lock unit, Vehicle electrical control module system, Right tail lamp bulb, Right tail lamp, High-mounted brake lamp bulb, Right rear side marker lamp bulb, Right brake lamp/turn signal bulb, Rear lid central locking system motor, License plate lamp

- E234 Release button in rear lid handle
- F124 Rear lid lock/alarm/central locking switch
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- M2 Right tail lamp bulb
- MX4 Right tail lamp
- M25 High-mounted brake lamp bulb
- M38 Right rear side marker lamp bulb
- M57 Right brake lamp/turn signal bulb
- T2aq Double connector
- T2dn Double connector
- T2dy Double connector
- T2t Double connector
- T4b 4-pin connector
- T4u 4-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- V53 Rear lid central locking system motor
- W3 Luggage compartment lamp
- X License plate lamp

- 86 Ground connection 1 (in rear wiring harness)
- 87 Ground connection 2 (in rear wiring harness)
- 437 Ground connection (in license plate lamp wiring harness)
- 662 Ground connection in left rear side panel
- 682 Ground connection 2 in right rear side panel
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- B128 Luggage compartment lamp connection (in interior wiring harness)
- W41 Positive connection (58) (in license plate lamp wiring harness)
- * Refer to applicable standard equipment wiring diagram



Light switch, Brake lamp switch, Vehicle electrical control module system

- E1 Light switch
- E18 Rear fog lamp switch
- F Brake lamp switch
- F4 Back-up lamp switch
- J519 Vehicle electrical control module system
- SB10 Fuse 10 (on fuse panel B)
- SC13 Fuse 13 (on fuse panel C)
- T2fi Double connector
- T2x Double connector
- T4al 4-pin connector
- T10h 10-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V155 Fuel filler door unlock motor

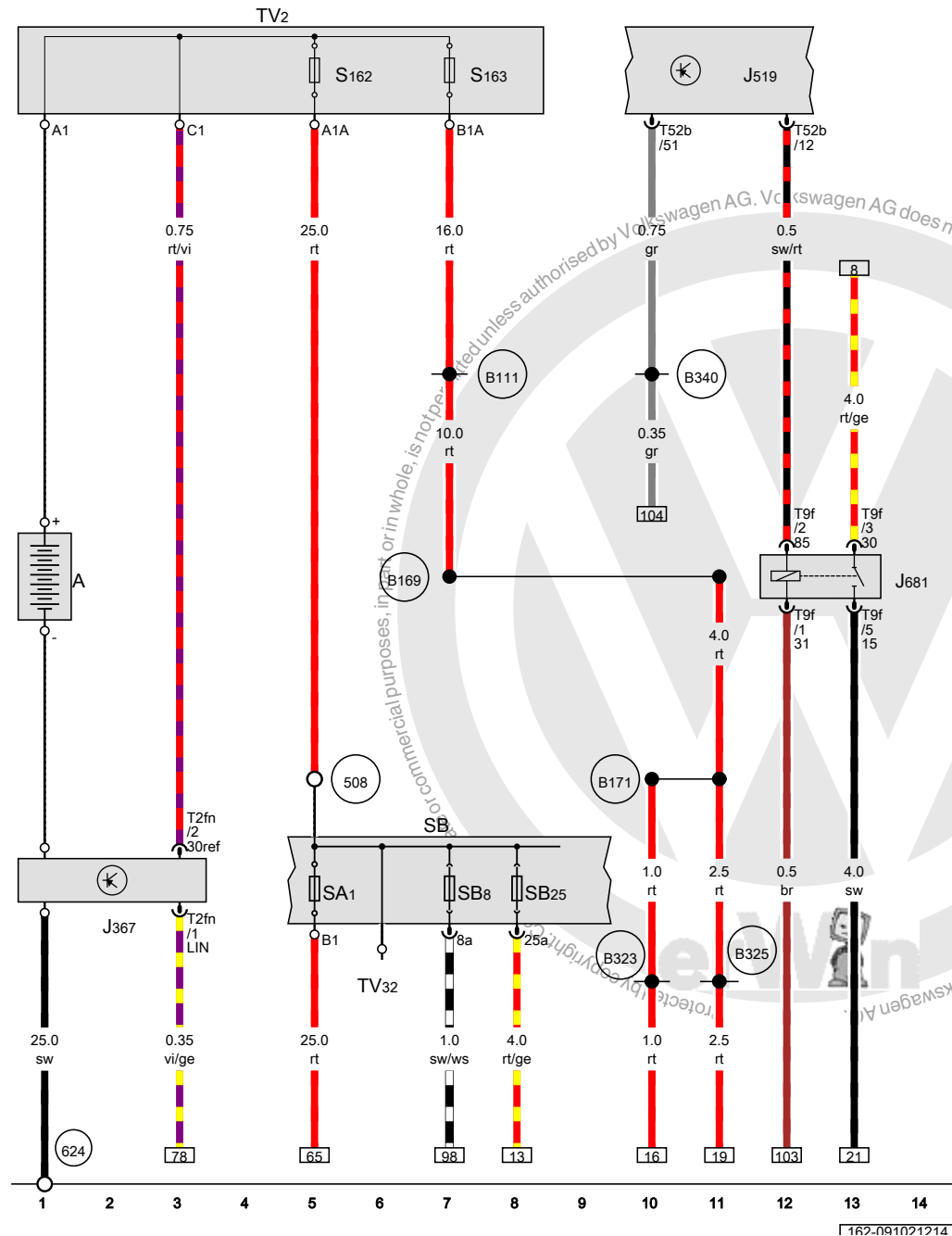
- 391 Ground connection 26 (in main wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B131 Connection 54 (in interior wiring harness)
- B182 Connection RF (in interior wiring harness)
- B722 Central locking connection 3 (in main wiring harness)
- D196 Connection 87a (in engine pre-wiring harness) 2
- * Depending on equipment

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- or = orange
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High voltage system , CNLA,CRJA,(0K1)

from June 2012



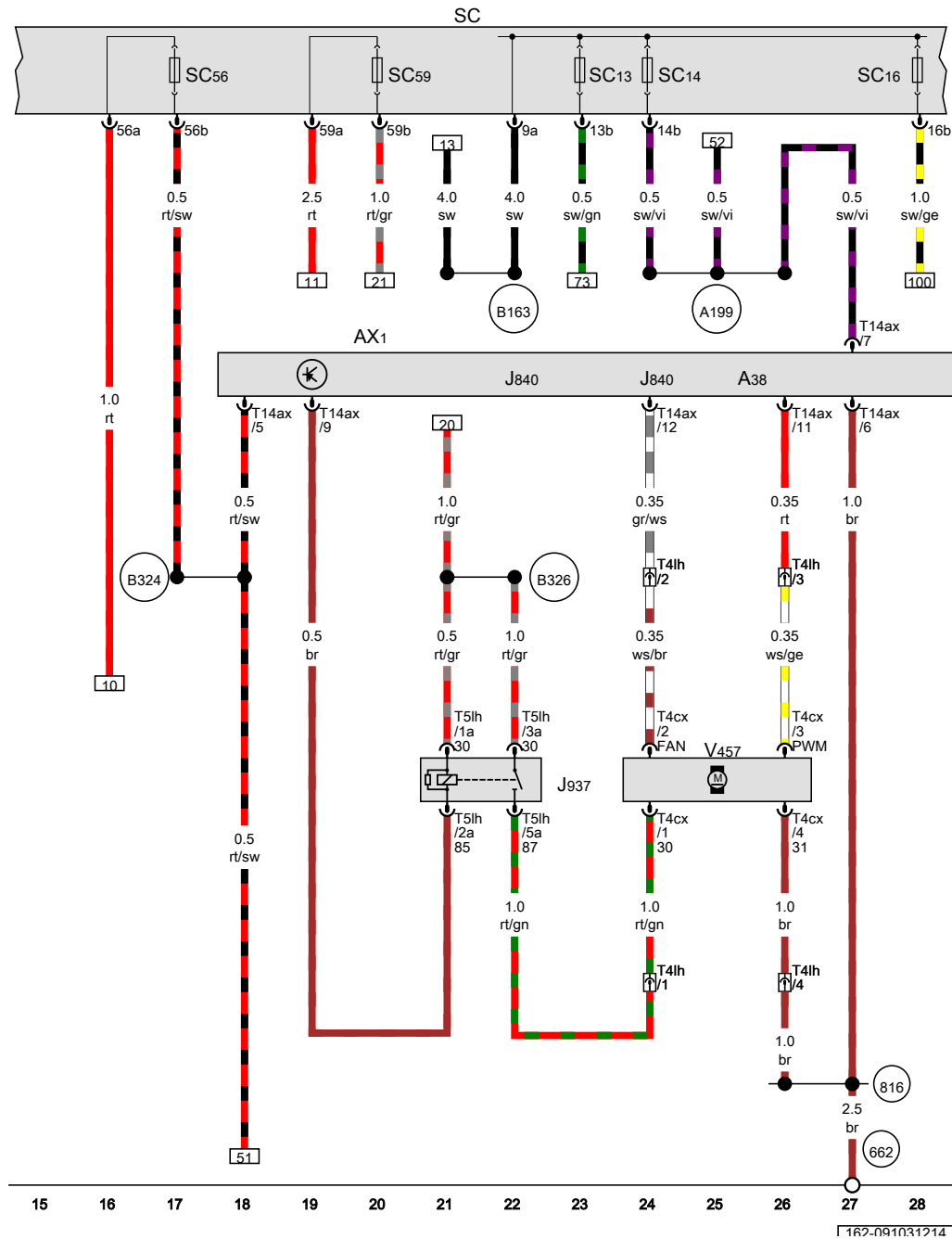


ws = white
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Battery, Battery monitoring control module, Vehicle electrical control module system, Fuse panel B, Remote start connection

- A Battery, in the luggage compartment, left
- J367 Battery monitoring control module, on the battery ground cable terminal
- J519 Vehicle electrical control module system
- J681 Terminal 15 power supply relay 2
- SA1 Fuse 1 (on fuse panel A), on the E-box in the engine compartment
- SB Fuse panel B, in the E-box
- SB8 Fuse 8 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)
- S162 Fuse 1 (terminal 30) on battery fuse panel
- S163 Fuse 2 (terminal 30) on battery fuse panel
- T2fn Double connector
- T9f 9-pin connector
- T52b 52-pin connector
- TV2 Terminal 30 wire junction, on the battery fuse panel
- TV32 Remote start connection, on the E-box in the engine compartment

- 508 Terminal 30 threaded connection (on E-box)
- 624 Ground connection near starter battery
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- B323 Positive connection 9 (30a) (in main wiring harness)
- B325 Positive connection 11 (30a) (in main wiring harness)
- B340 Connection 58d (in main wiring harness) 1

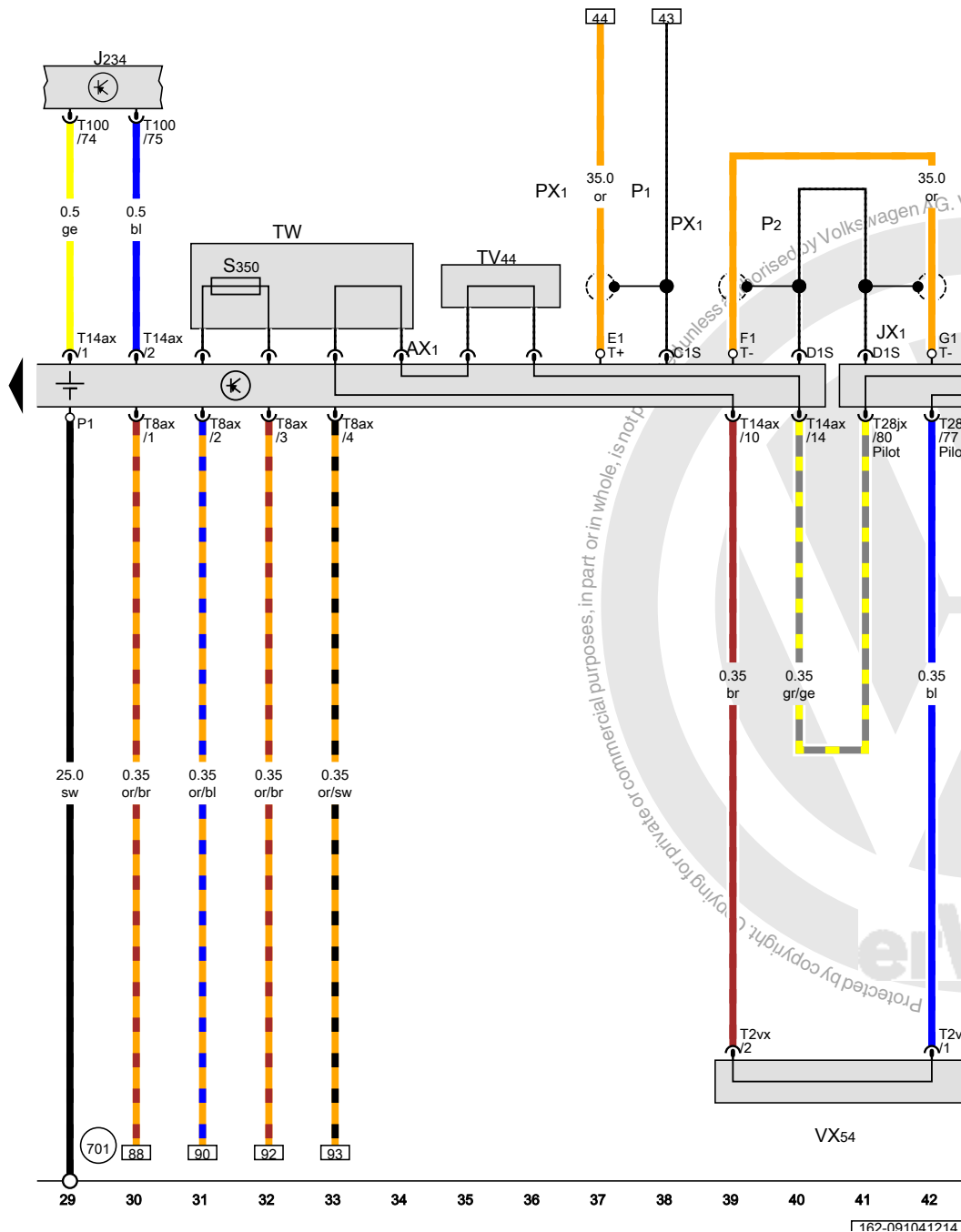


Hybrid battery unit, Hybrid battery, Battery regulation control module, Fan activation relay, Fuse panel C, Battery fan 1

- AX1 Hybrid battery unit
- A38 Hybrid battery
- J840 Battery regulation control module
- J937 Fan activation relay
- SC Fuse panel C
- SC13 Fuse 13 (on fuse panel C)
- SC14 Fuse 14 (on fuse panel C)
- SC16 Fuse 16 (on fuse panel C)
- SC56 Fuse 56 (on fuse panel C)
- SC59 Fuse 59 (on fuse panel C)
- T4cx 4-pin connector, brown
- T4lh 4-pin connector, brown
- T5lh 5-pin connector
- T14ax 14-pin connector
- V457 Battery fan 1

- 662 Ground connection in left rear side panel
- 816 Ground connection 1 in Hybrid System wiring harness
- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B324 Positive connection 10 (30a) (in main wiring harness)
- B326 Positive connection 12 (30a) (in main wiring harness)

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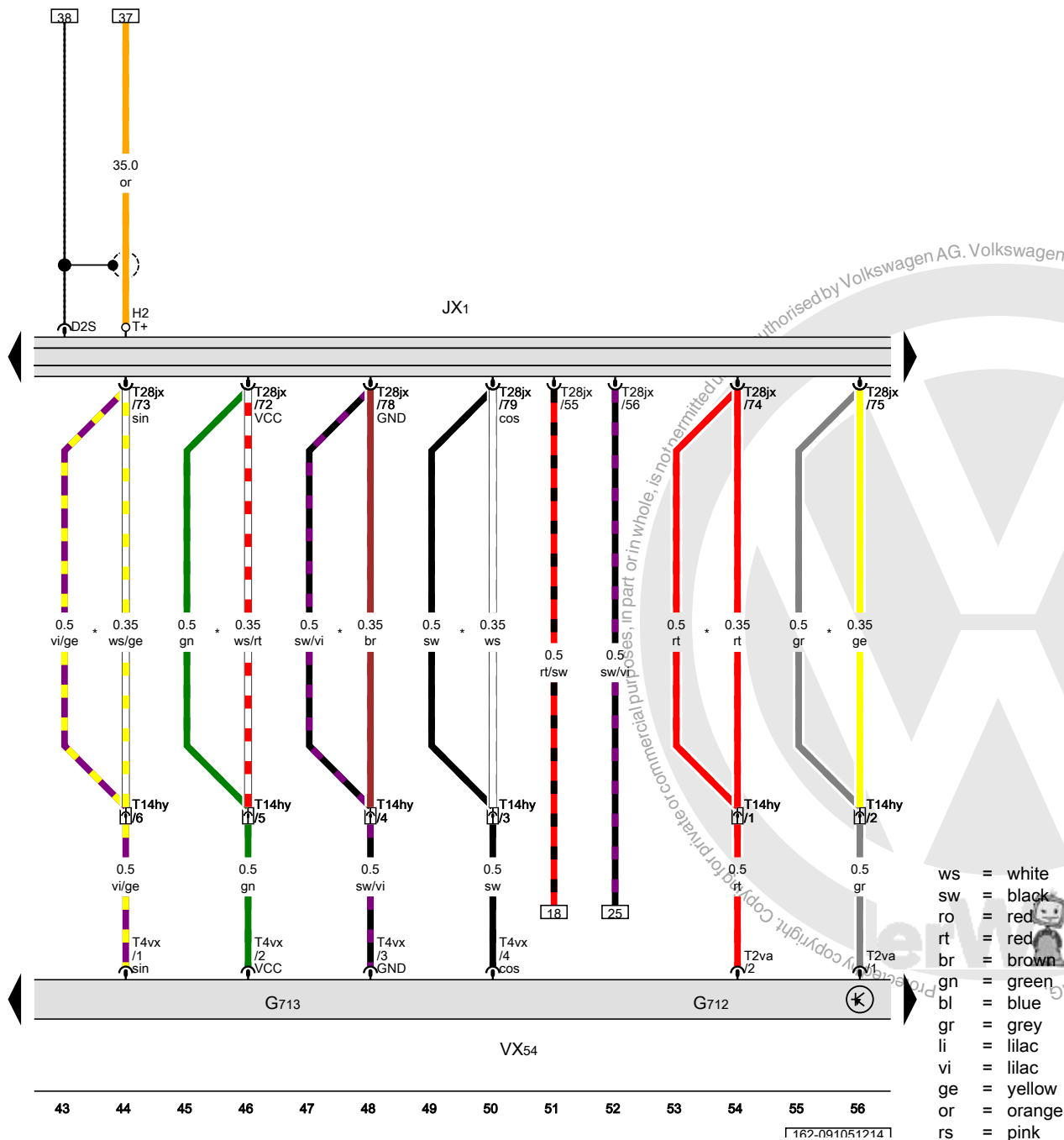
Hybrid battery unit, Electric drive power and control electronics, High voltage wiring harness for high voltage battery, Pilot line connector 1, High voltage system maintenance connector, Three-phase current drive

- AX1 Hybrid battery unit
- JX1 Electric drive power and control electronics
- J234 Airbag control module
- PX1 High voltage wiring harness for high voltage battery
- P1 Hybrid battery high voltage cable, positive terminal
- P2 Hybrid battery high voltage cable, negative terminal
- S350 High voltage system fuse 1
- T2vx Double connector
- T8ax 8-pin connector
- T14ax 14-pin connector
- T28jx 28-pin connector
- TV44 Pilot line connector 1
- T100 100-pin connector
- TW High voltage system maintenance connector
- VX54 Three-phase current drive
- 701 Ground connection in luggage compartment

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Drive motor temperature sensor, Electric drive power and control electronics, Three-phase current drive

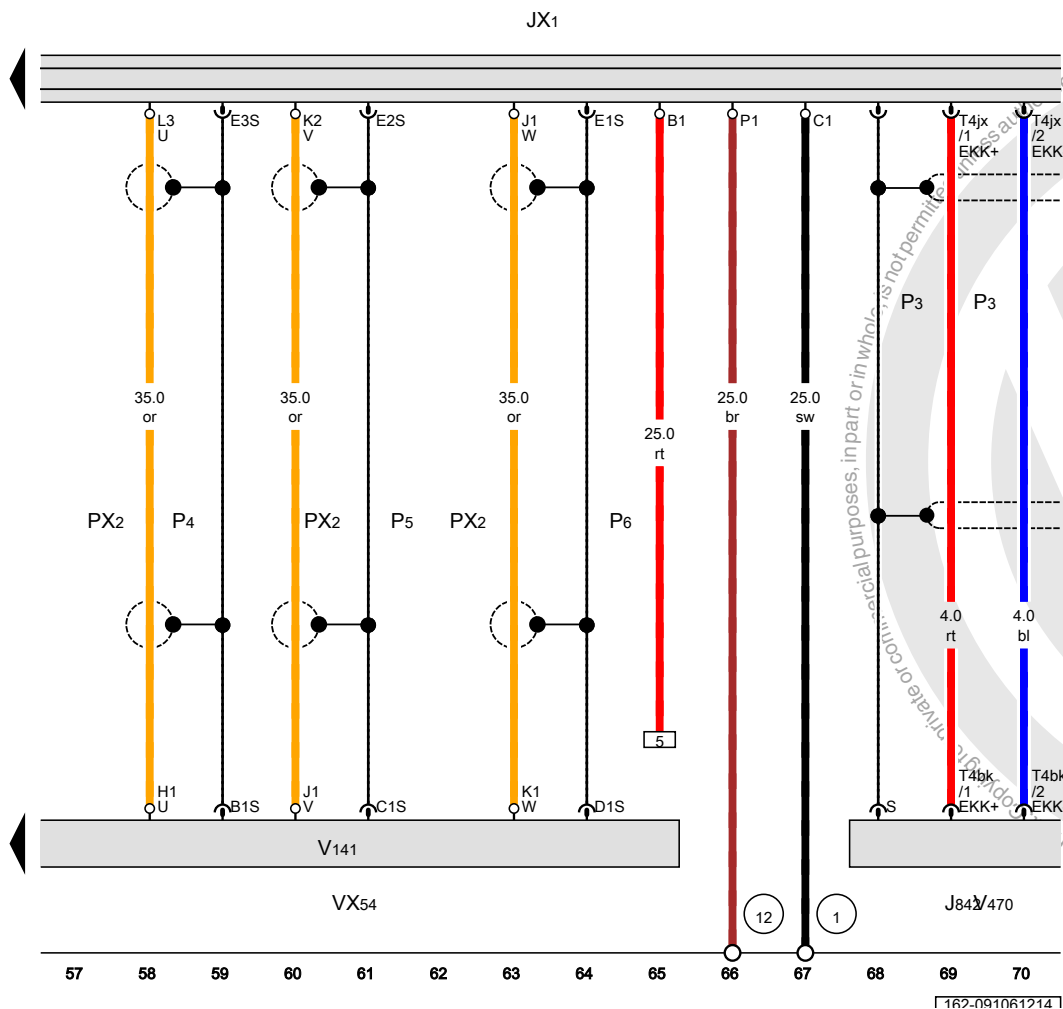
- G712 Drive motor temperature sensor
- G713 Drive motor rotor position sensor 1
- JX1 Electric drive power and control electronics
- T2va Double connector
- T4vx 4-pin connector
- T14hy 14-pin connector, black
- T28jx 28-pin connector
- VX54 Three-phase current drive
- * from December 2012

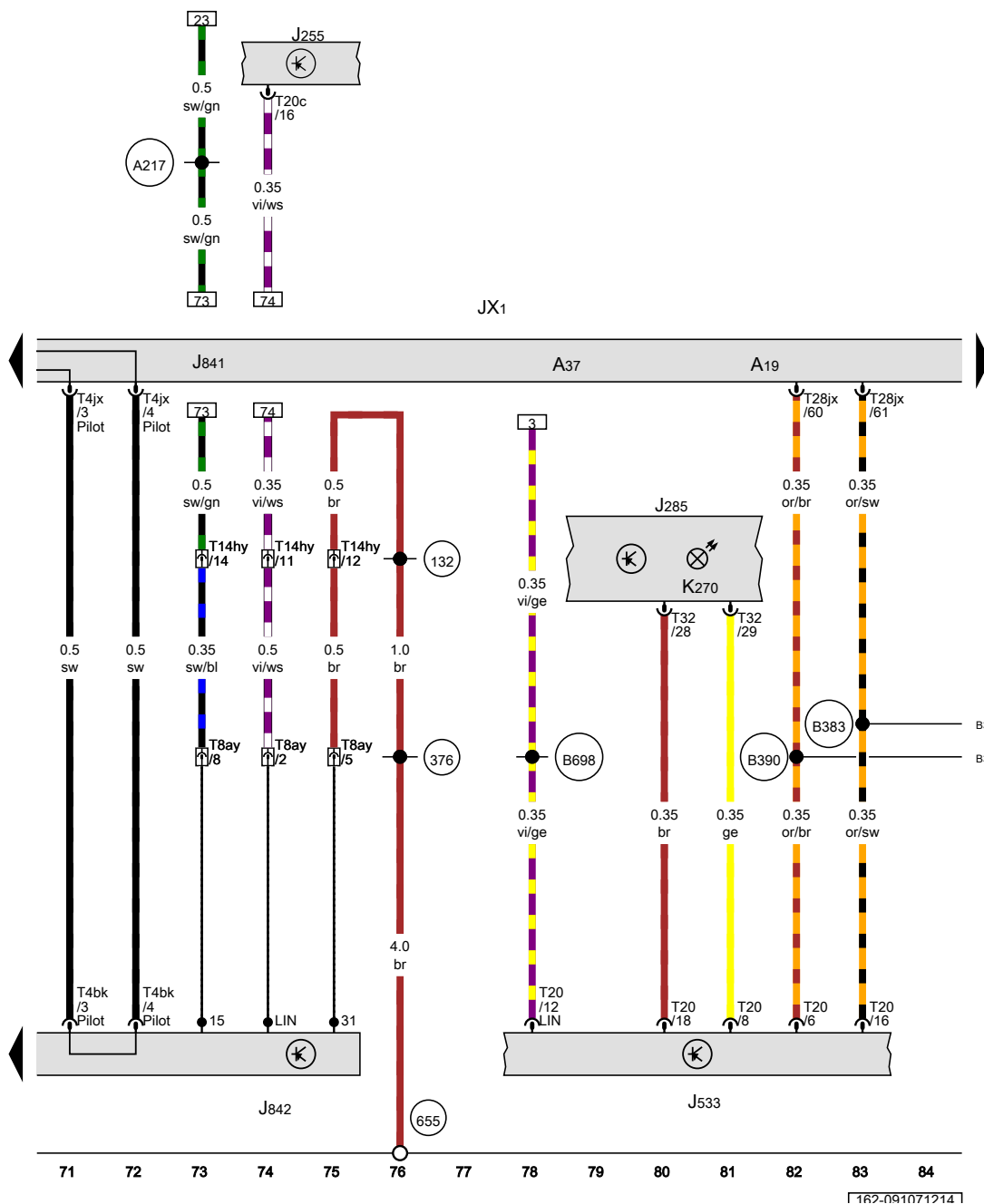


Electric drive power and control electronics, A/C compressor control module, Drive motor high voltage wiring harness, Electrical A/C compressor high voltage cable, Three-phase current drive, Electro-drive drive motor, Electrical A/C compressor

- JX1 Electric drive power and control electronics
- J842 A/C compressor control module
- PX2 Drive motor high voltage wiring harness
- P3 Electrical A/C compressor high voltage cable
- P4 Drive motor high voltage cable 1
- P5 Drive motor high voltage cable 2
- P6 Drive motor high voltage cable 3
- T4bk 4-pin connector
- T4jx 4-pin connector
- VX54 Three-phase current drive
- V141 Electro-drive drive motor
- V470 Electrical A/C compressor

- 1 Ground strap, battery to body, on the left bulkhead
- 12 Ground connection in engine compartment, left





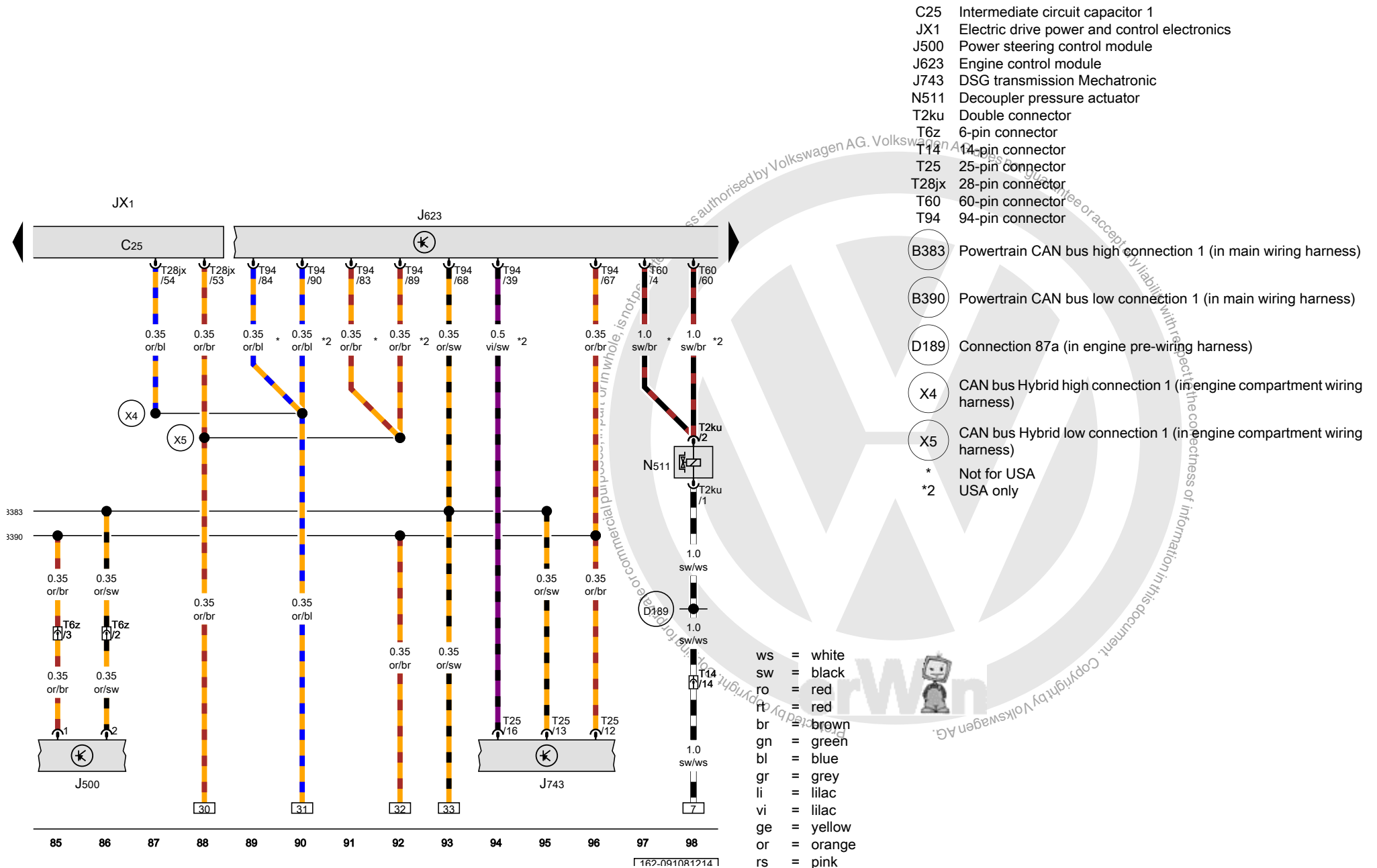
Voltage converter, Drive motor inverter, Electric drive power and control electronics, Instrument cluster control module, Data bus on board diagnostic interface, Electrical drive control module, A/C compressor control module, Electrical drive indicator lamp

- A19 Voltage converter
- A37 Drive motor inverter
- JX1 Electric drive power and control electronics
- J255 Climatronic control module
- J285 Instrument cluster control module
- J533 Data bus on board diagnostic interface
- J841 Electrical drive control module
- J842 A/C compressor control module
- K270 Electrical drive indicator lamp
- T4bk 4-pin connector
- T4jx 4-pin connector
- T8ay 8-pin connector
- T14hy 14-pin connector, black
- T20 20-pin connector
- T20c 20-pin connector
- T28jx 28-pin connector
- T32 32-pin connector

- 132 Ground connection 3 (in engine compartment wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B698 LIN bus connection 3 (in main wiring harness)

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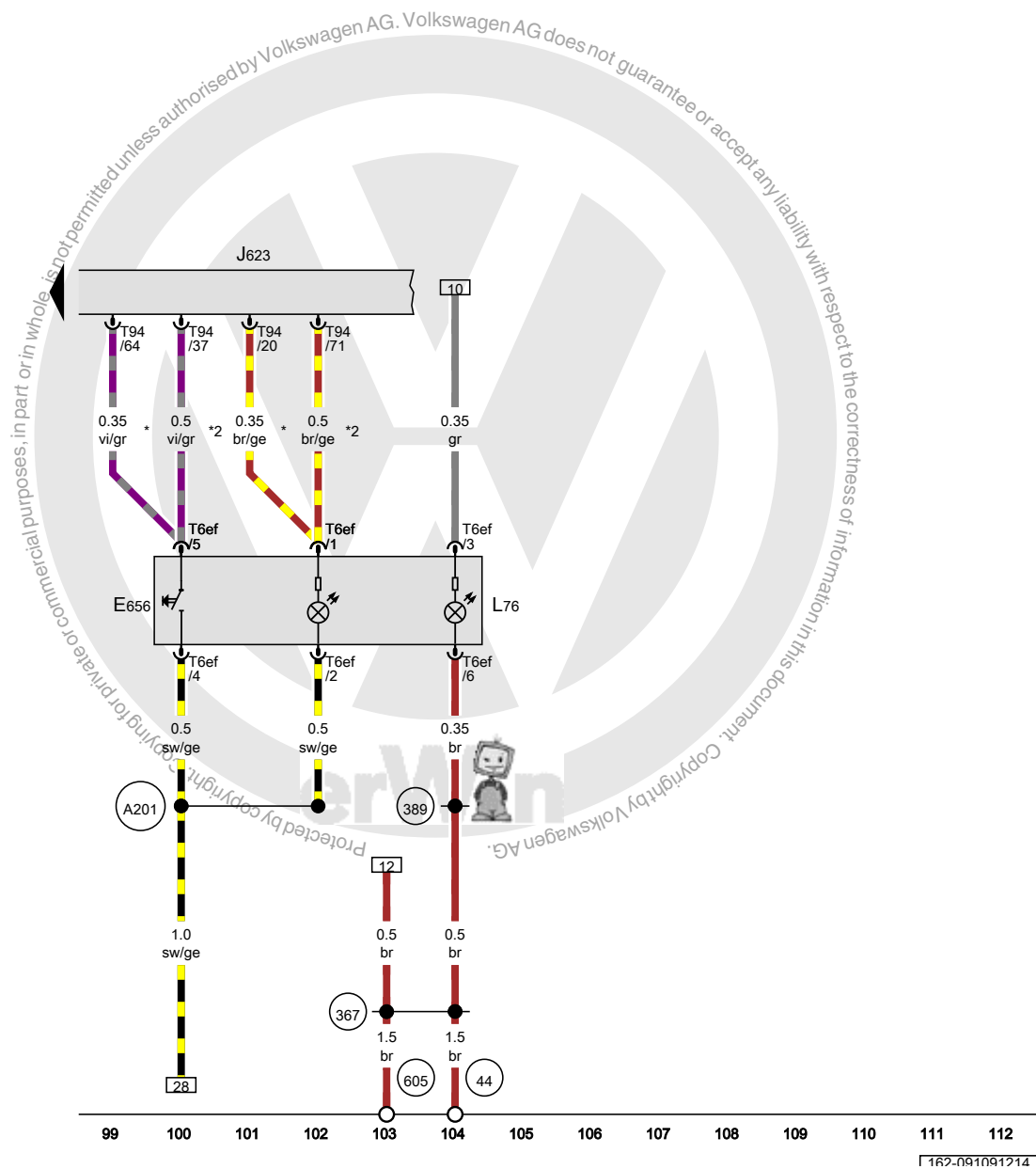
Electric drive power and control electronics, Engine control module, Decoupler pressure actuator



Electrical drive button, Engine control module

E656 Electrical drive button
J623 Engine control module
L76 Push button illumination bulb
T6ef 6-pin connector
T94 94-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- A201 Positive connection 6 (15a) (in instrument panel wiring harness)
- * Not for USA
- *2 USA only

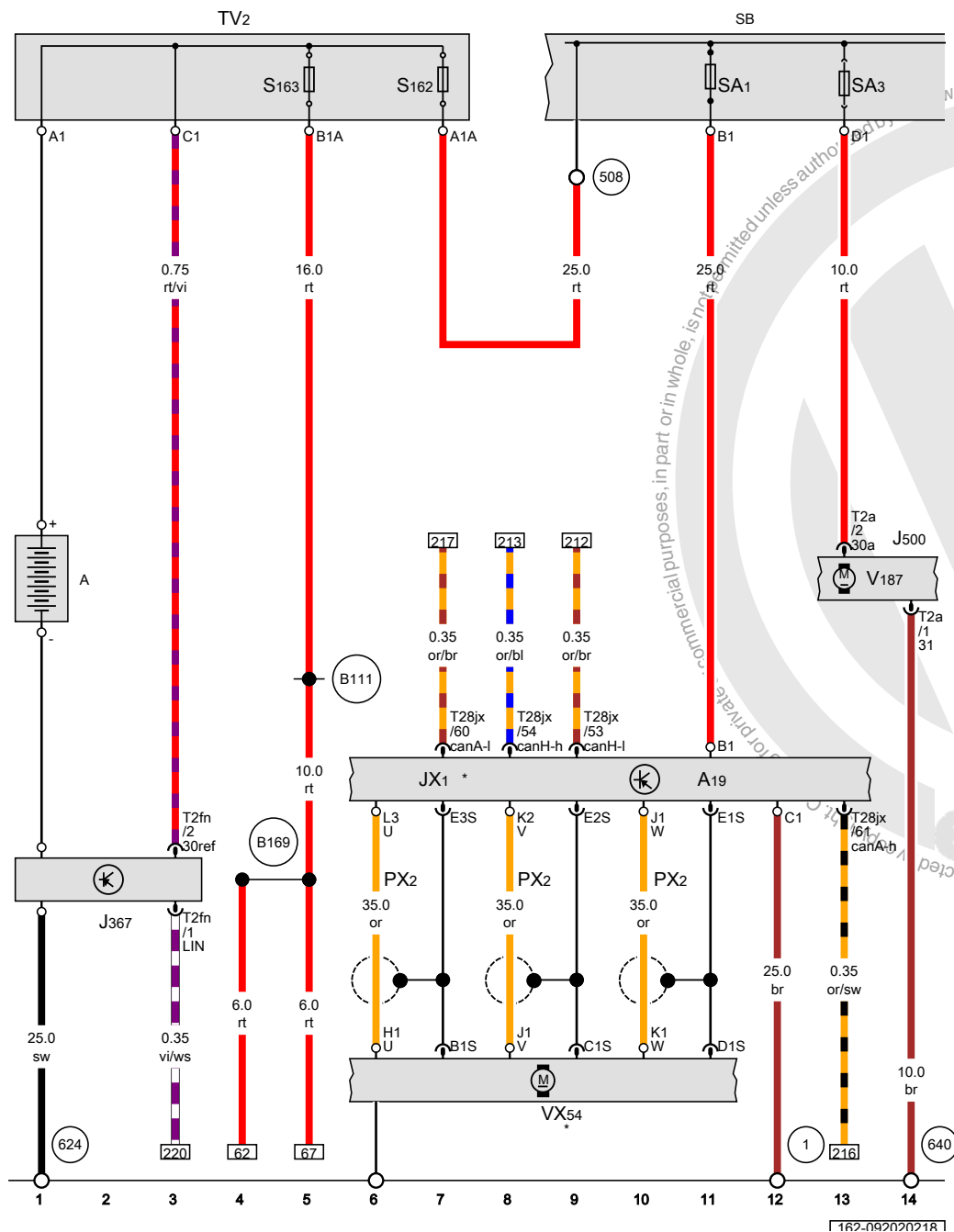


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1.4L Gasoline Engine , CNLA

From June 2012



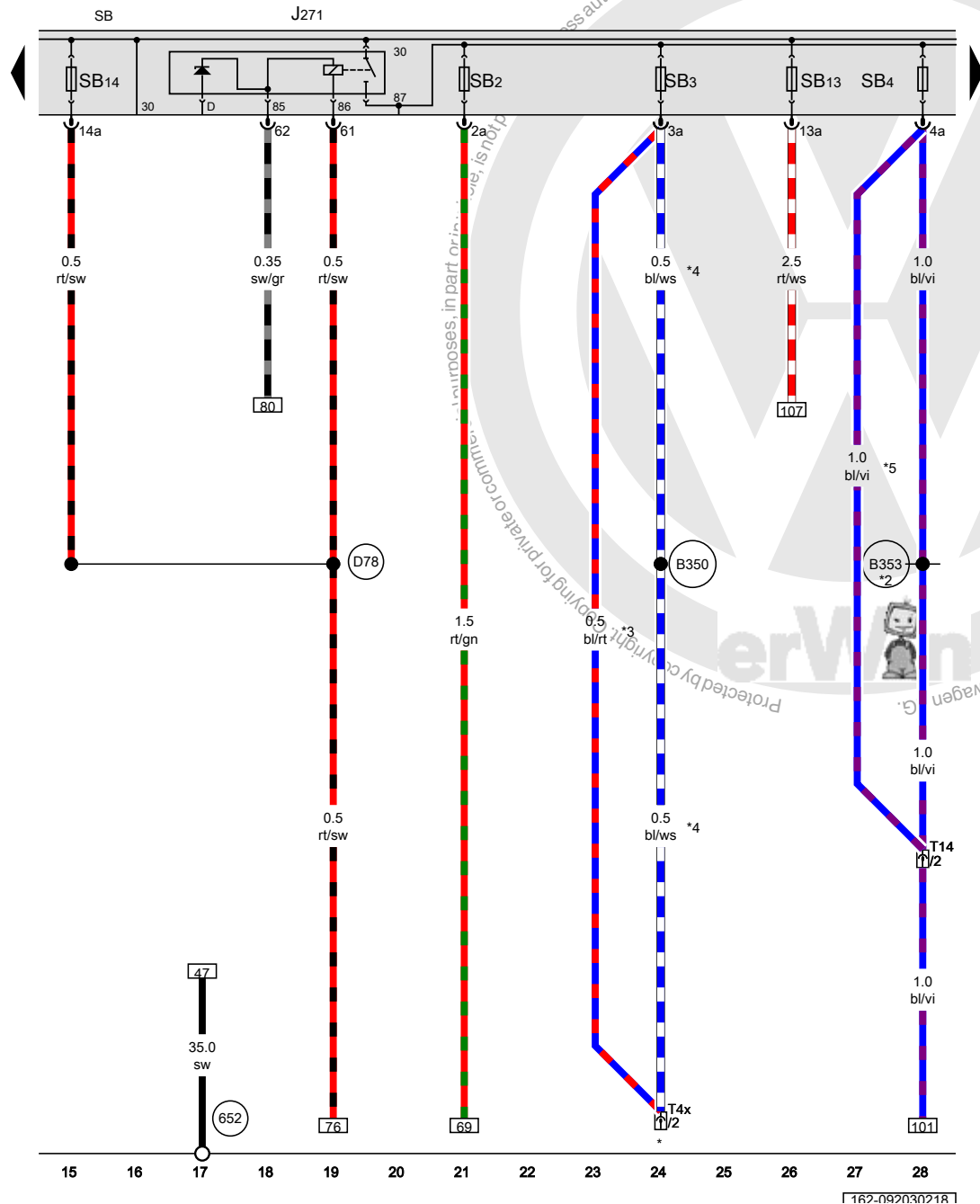


Battery, Voltage Converter, Electric Drive Power and Control Electronics, Battery Monitoring Control Module, Drive Motor High-Voltage Wiring Harness, Fuse 1 (On Fuse Panel A), Fuse 3 (On Fuse Panel A), Fuse Panel B, Terminal 30 Wire Junction, Three-Phase Current Drive

- A Battery, In the Luggage Compartment, Left
- A19 Voltage Converter
- JX1 Electric Drive Power and Control Electronics
- J367 Battery Monitoring Control Module, On the Battery Ground Cable Terminal
- J500 Power Steering Control Module
- PX2 Drive Motor High-Voltage Wiring Harness
- SA1 Fuse 1 (On Fuse Panel A)
- SA3 Fuse 3 (On Fuse Panel A)
- S162 Fuse 1 (Terminal 30) on Battery Fuse Panel
- S163 Fuse 2 (Terminal 30) on Battery Fuse Panel
- SB Fuse Panel B
- T2a 2-Pin Connector
- T2fn 2-Pin Connector
- T28jx 28-Pin Connector
- TV2 Terminal 30 Wire Junction, On the Battery Fuse Panel
- VX54 Three-Phase Current Drive
- V187 Electromechanical Power Steering Motor

- 1 Ground Cable, Battery to Body
- 508 Terminal 30 Threaded Connection (On E-Box)
- 624 Ground Connection near Starter Battery
- 640 Ground Connection 2 in Engine/Motor Compartment, Left
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- * Refer to Applicable High-Voltage System Wiring Diagram

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

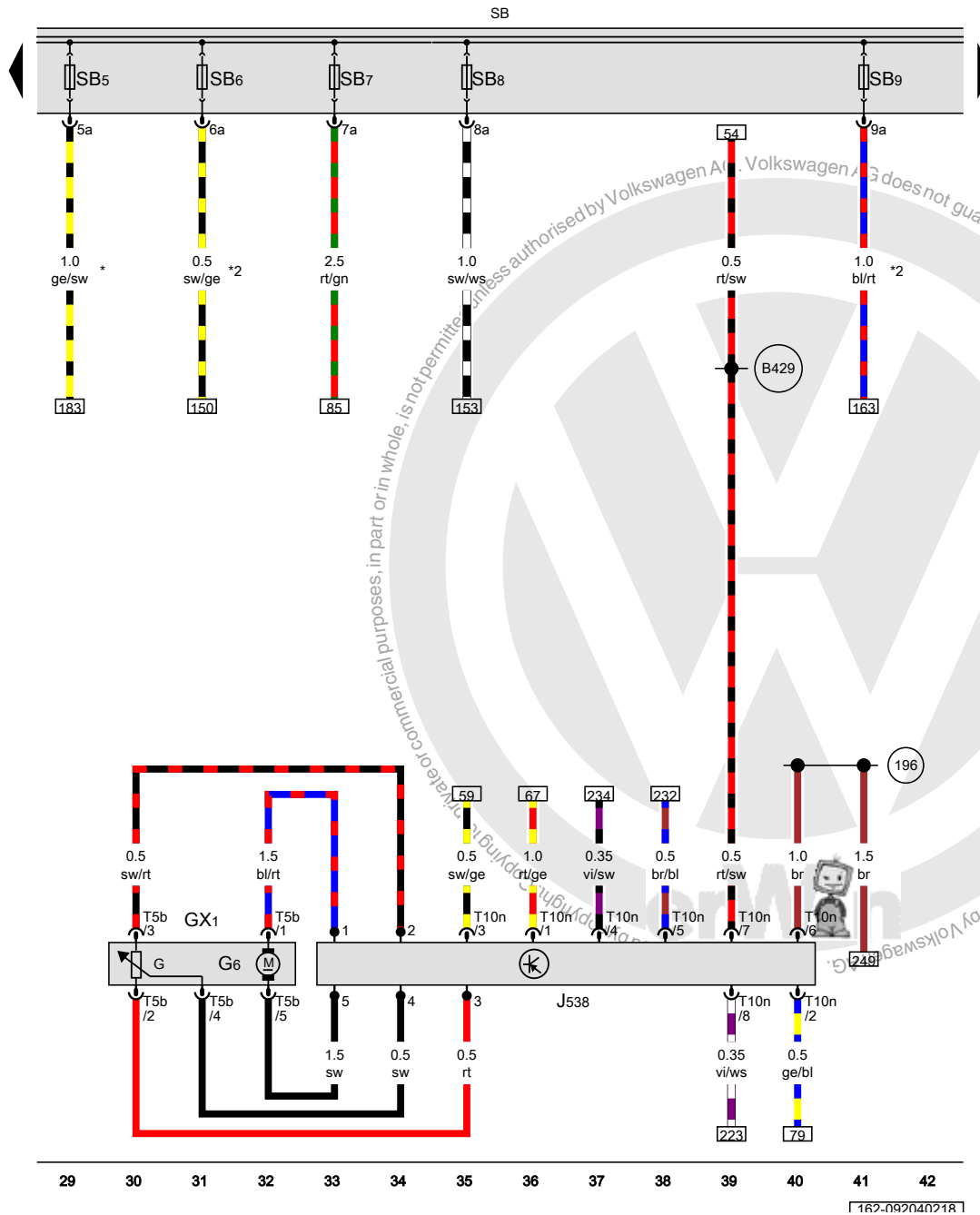


Motronic Engine Control Module Power Supply Relay, Fuse Panel B

- J271 Motronic Engine Control Module Power Supply Relay
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB4 Fuse 4 (On Fuse Panel B)
- SB13 Fuse 13 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- T4x 4-Pin Connector
- T14 14-Pin Connector

- 652 Transmission/Engine Ground Connection
- B350 Positive Connection 1 (87a) (in Main Wiring Harness)
- B353 Positive Connection 4 (87a) (in Main Wiring Harness)
- D78 Positive Connection 1 (30a) (in Engine/Motor Compartment Wiring Harness)
- * Radiator Fan Connection
- *2 Omitted as a Running Change
- *3 Through May 2013
- *4 From June 2013
- *5 Depending on Equipment

- ws = white
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- br = brown
- gn = green
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- gr = grey
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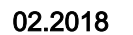
Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Fuel Pump Control Module, Fuse Panel B

- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J538 Fuel Pump Control Module
- SB Fuse Panel B
- SB5 Fuse 5 (On Fuse Panel B)
- SB6 Fuse 6 (On Fuse Panel B)
- SB7 Fuse 7 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB9 Fuse 9 (On Fuse Panel B)
- T5b 5-Pin Connector
- T10n 10-Pin Connector

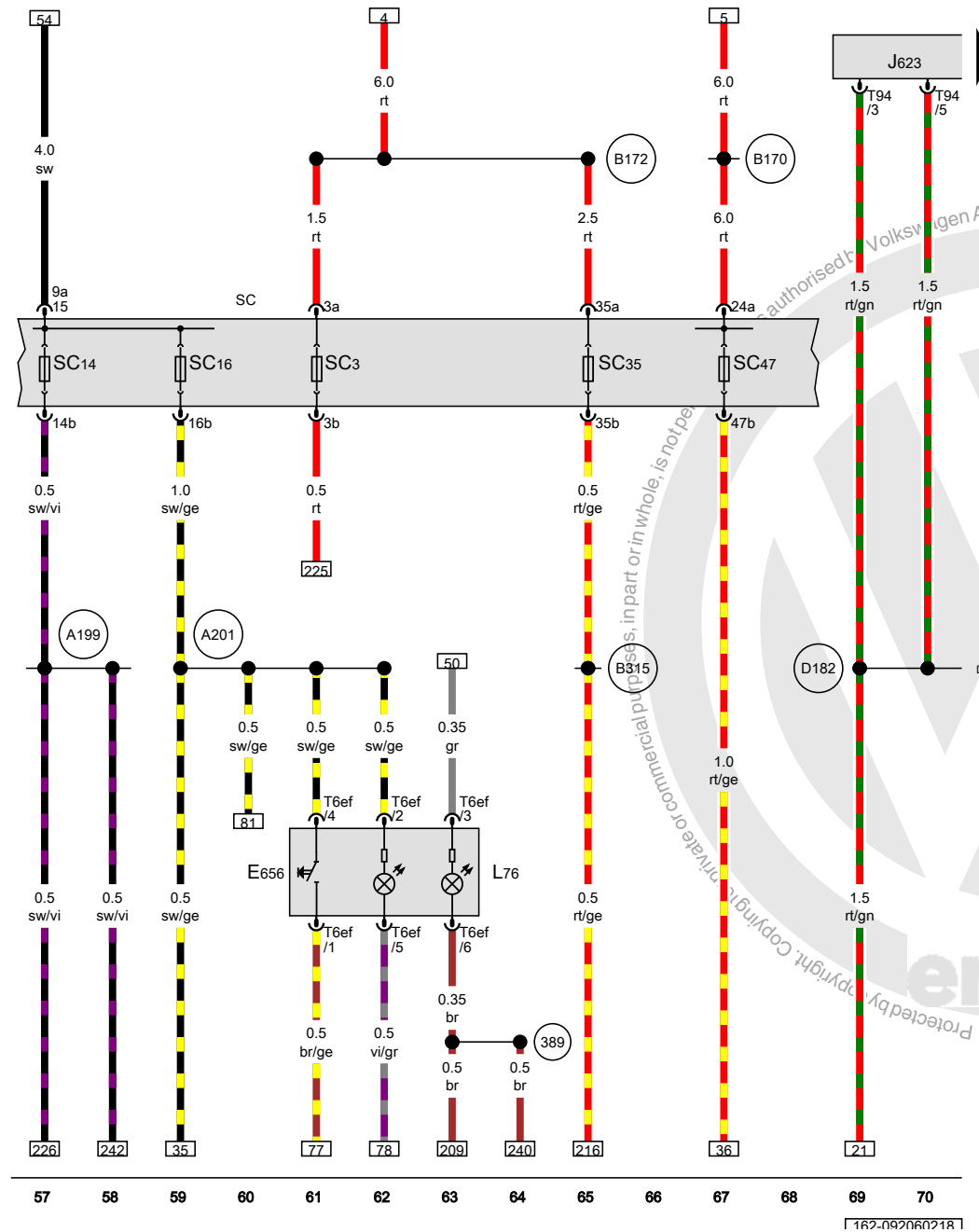
196 Ground Connection 3 (in Rear Wiring Harness)

B429 Fuel Pump Relay Connection (in Main Wiring Harness)

- * The Color of the Wires Depends on Vehicle Equipment
- *2 Diameter Depends on Equipment



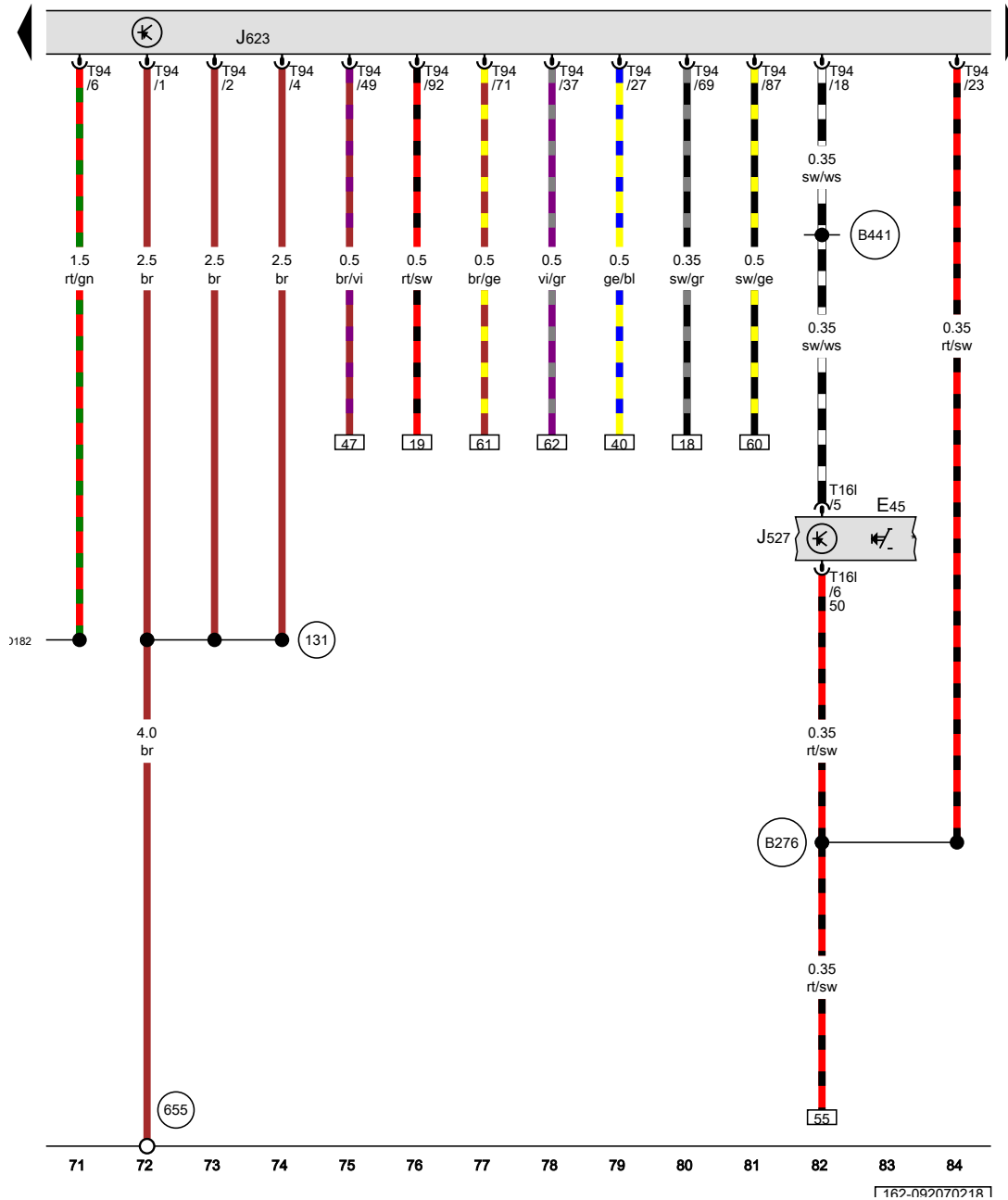
Electric Drive Button, Engine/Motor Control Module, Push Button Illumination Bulb, Fuse Panel C



- E656 Electric Drive Button
- J623 Engine/Motor Control Module
- L76 Push Button Illumination Bulb
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- SC47 Fuse 47 (On Fuse Panel C)
- T6ef 6-Pin Connector
- T94 94-Pin Connector

- 389 Ground Connection 24 (in Main Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- D182 Connection 3 (87A) (in Engine/Motor Compartment Wiring Harness)

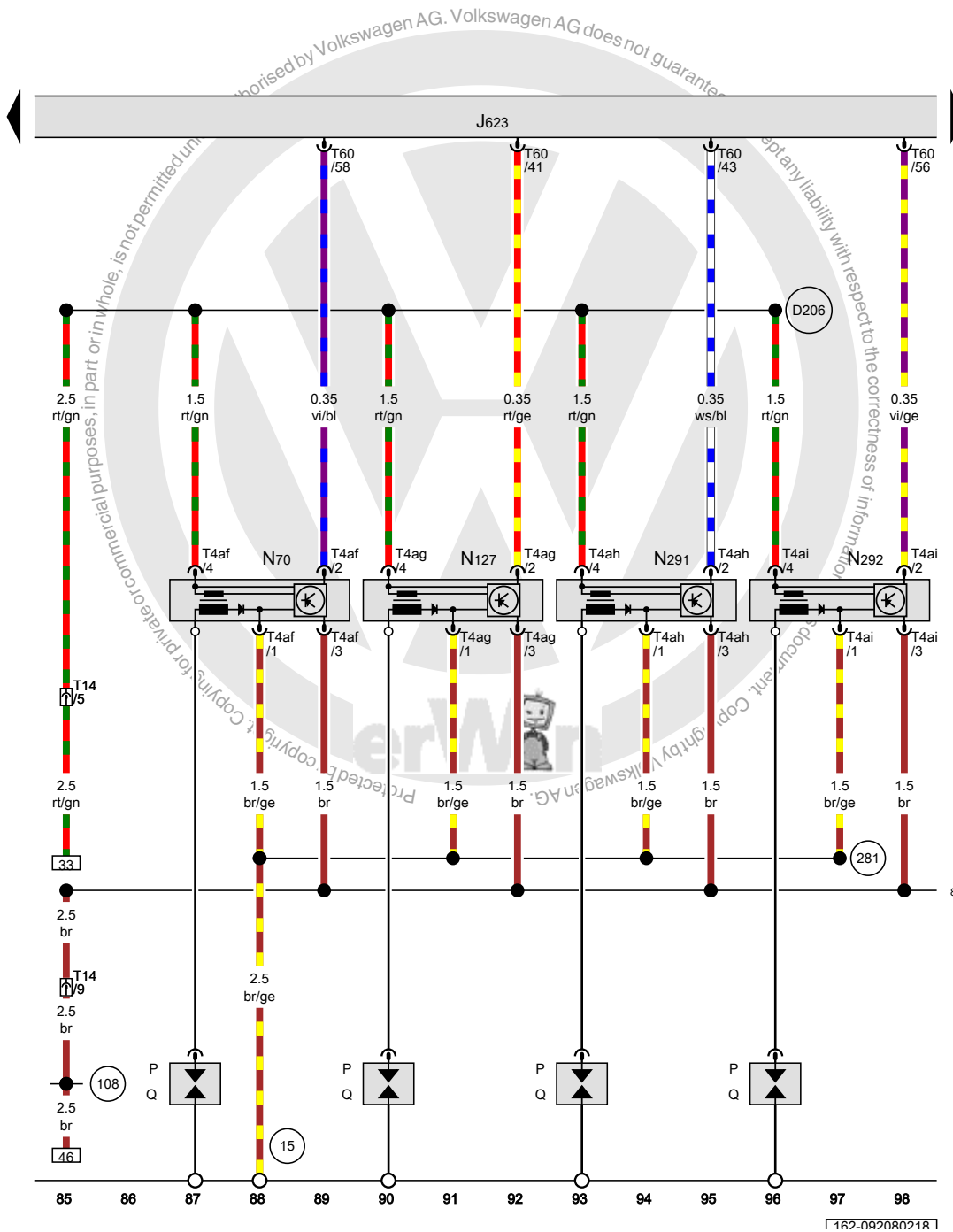
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Engine/Motor Control Module

- E45 Cruise Control Switch
- J527 Steering Column Electronics Control Module
- J623 Engine/Motor Control Module
- T161 16-Pin Connector
- T94 94-Pin Connector
- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- B276 Positive Connection (50) (in Main Wiring Harness)
- B441 Cruise Control Connection (in Main Wiring Harness)
- D182 Connection 3 (87A) (in Engine/Motor Compartment Wiring Harness)
- * For Vehicles with Cruise Control System

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink



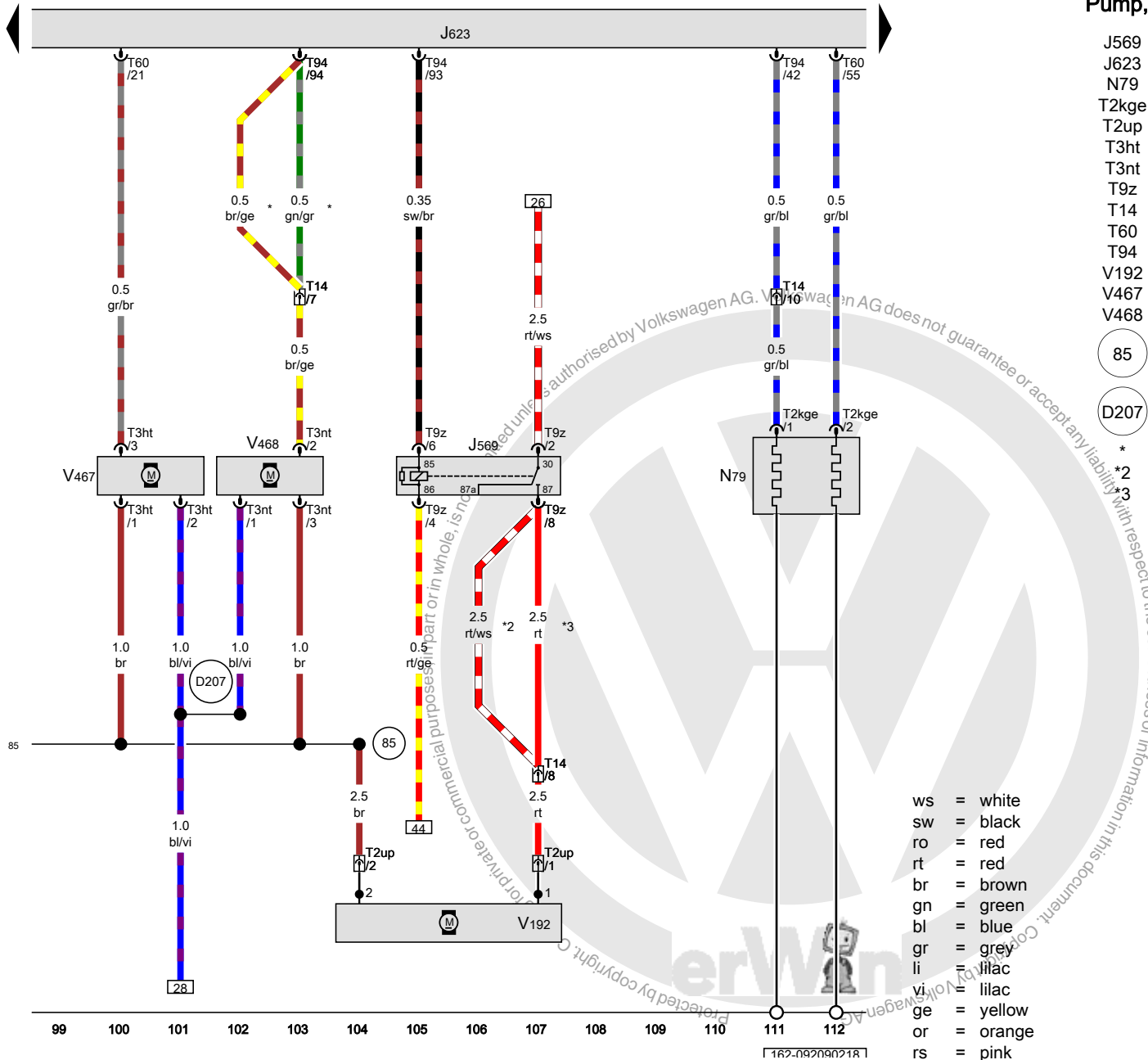
Engine/Motor Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors, Spark Plugs

- J623 Engine/Motor Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector

- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine/Motor Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

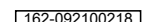
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- vi = lilac
- ge = yellow
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- rs = pink

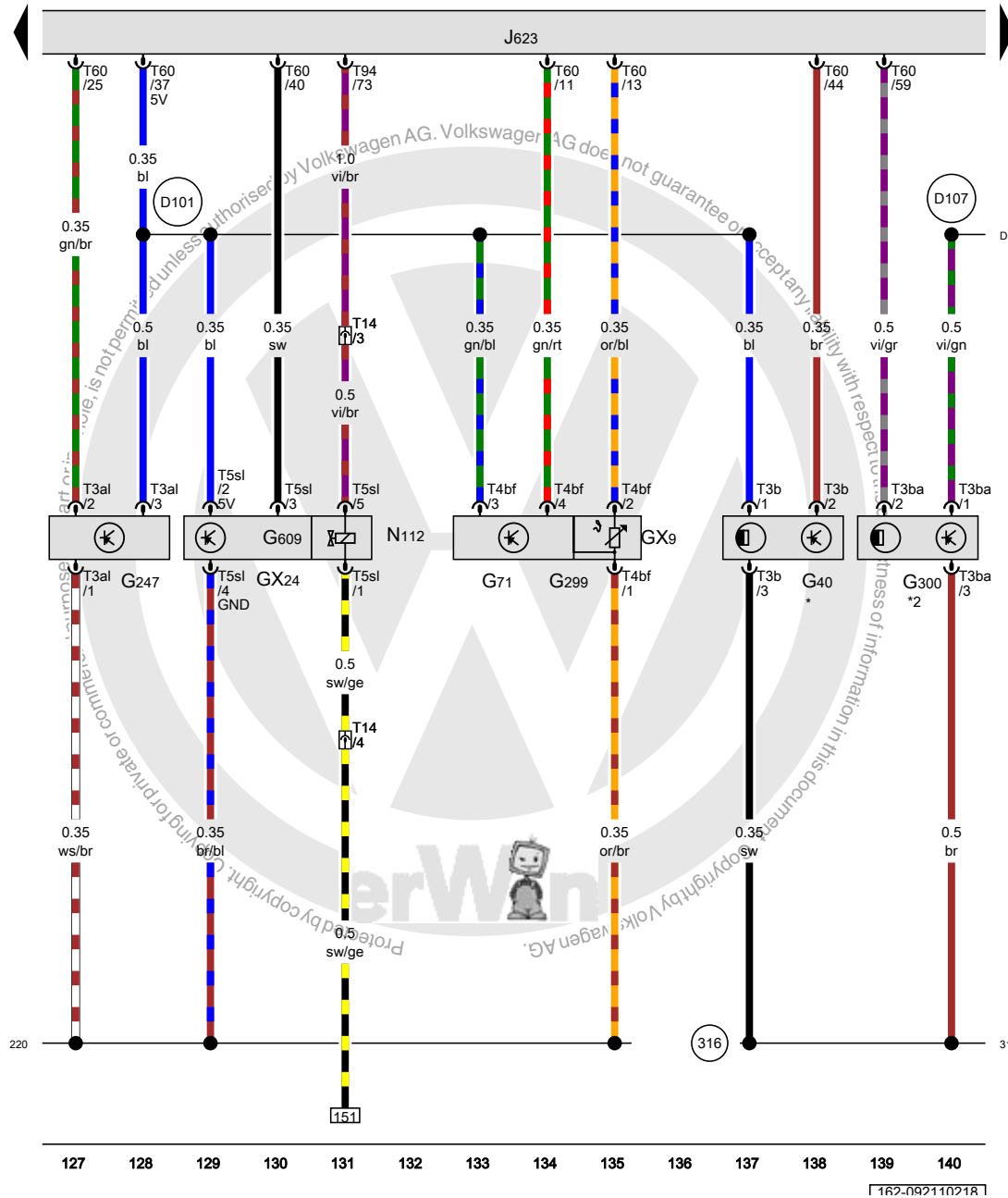
Brake Booster Relay, Engine/Motor Control Module, Brake System Vacuum Pump, High Temperature Circuit Coolant Pump, Low Temperature Circuit Coolant Pump



- J569 Brake Booster Relay
- J623 Engine/Motor Control Module
- N79 Positive Crankcase Ventilation Heating Element
- T2kge 2-Pin Connector
- T2up 2-Pin Connector
- T3ht 3-Pin Connector
- T3nt 3-Pin Connector
- T9z 9-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- V192 Brake System Vacuum Pump
- V467 High Temperature Circuit Coolant Pump
- V468 Low Temperature Circuit Coolant Pump
- (85) Ground Connection 1 (in Engine/Motor Compartment Wiring Harness)
- (D207) Connection 7 (87A) (in Engine/Motor Compartment Wiring Harness)
- * Depending on Equipment
- *2 The Color of the Wires Depends on Vehicle Equipment
- *3 From July 2013

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

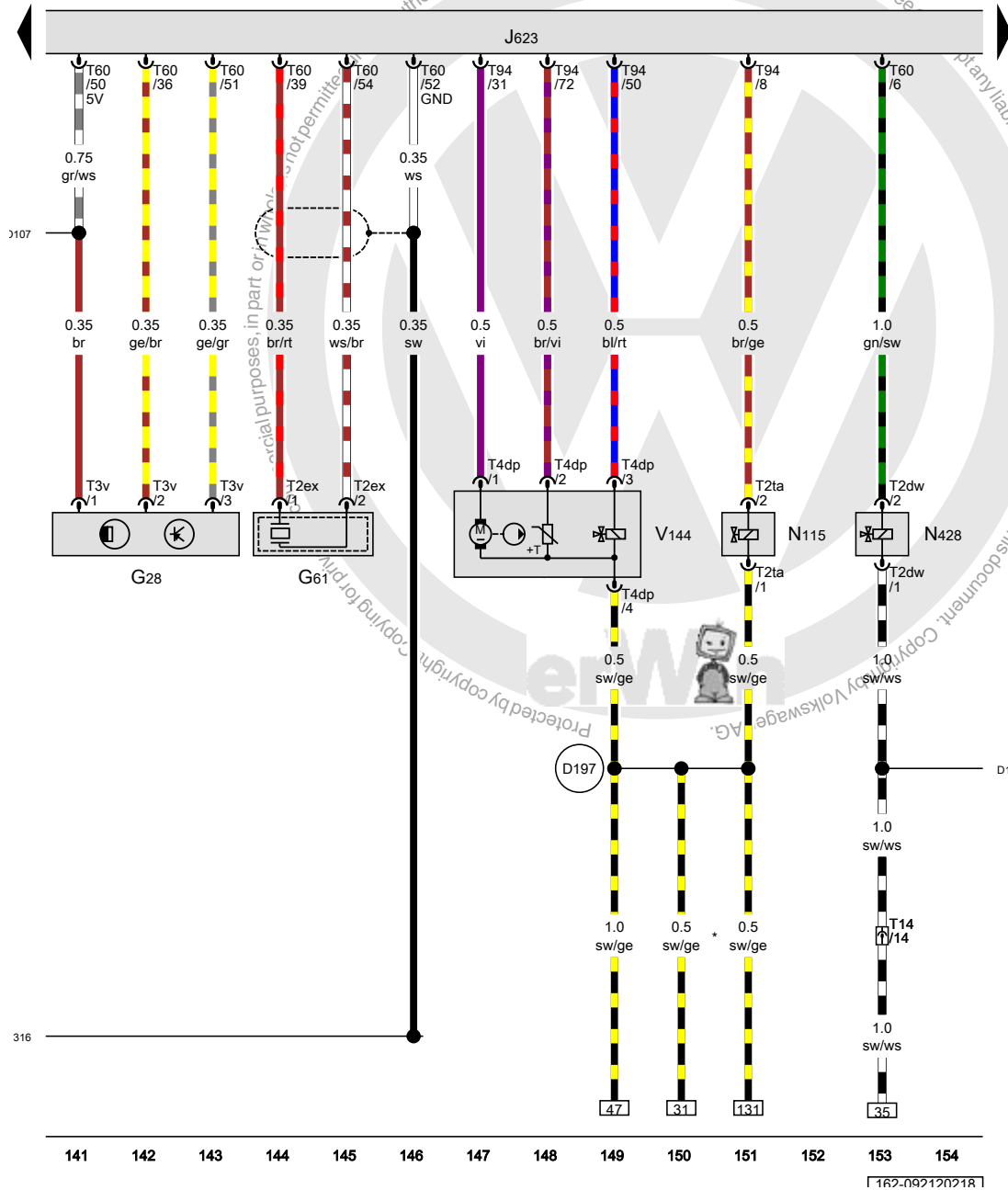




Intake Manifold Sensor, Secondary Air System, Camshaft Position Sensor, Manifold Absolute Pressure Sensor, Fuel Pressure Sensor, Intake Air Temperature Sensor 2, Camshaft Position Sensor 3, Secondary Air Injection Sensor 1, Engine/Motor Control Module, Secondary Air Injection Solenoid Valve

- GX9 Intake Manifold Sensor
- GX24 Secondary Air System
- G40 Camshaft Position Sensor
- G71 Manifold Absolute Pressure Sensor
- G247 Fuel Pressure Sensor
- G299 Intake Air Temperature Sensor 2
- G300 Camshaft Position Sensor 3
- G609 Secondary Air Injection Sensor 1
- J623 Engine/Motor Control Module
- N112 Secondary Air Injection Solenoid Valve
- T3al 3-Pin Connector
- T3b 3-Pin Connector
- T3ba 3-Pin Connector
- T4bf 4-Pin Connector
- T5sl 5-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector

- 220 Sensor Ground Connection (in Engine Wiring Harness)
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D101 Connection 1 (in Engine/Motor Compartment Wiring Harness)
- D107 Connection 5 (in Engine/Motor Compartment Wiring Harness)
- * Camshaft Sensor, Intake Valves
- *2 Camshaft Sensor, Exhaust Valves

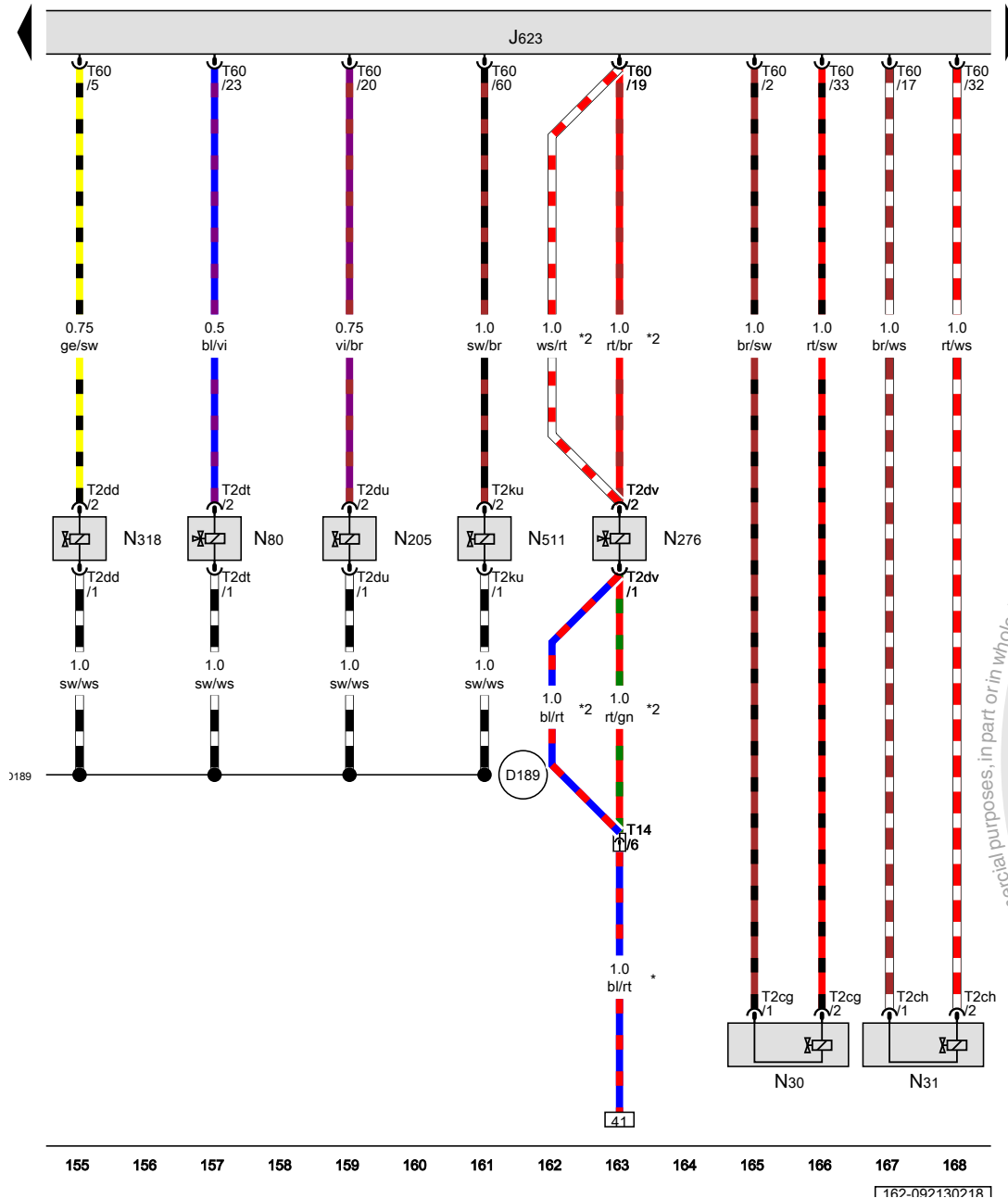


Engine Speed Sensor, Knock Sensor 1, Engine/Motor Control Module, Oil Pressure Regulation Valve

- G28 Engine Speed Sensor
- G61 Knock Sensor 1
- J623 Engine/Motor Control Module
- N115 EVAP Canister Purge Regulator Valve 2
- N428 Oil Pressure Regulation Valve
- T2dw 2-Pin Connector
- T2ex 2-Pin Connector
- T2ta 2-Pin Connector
- T3v 3-Pin Connector
- T4dp 4-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- V144 Leak Detection Pump

- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D107 Connection 5 (in Engine/Motor Compartment Wiring Harness)
- D189 Connection 87A (in Engine Pre-Wiring Harness)
- D197 Connection 5 (87A) (in Engine/Motor Compartment Wiring Harness)
- * Diameter Depends on Equipment

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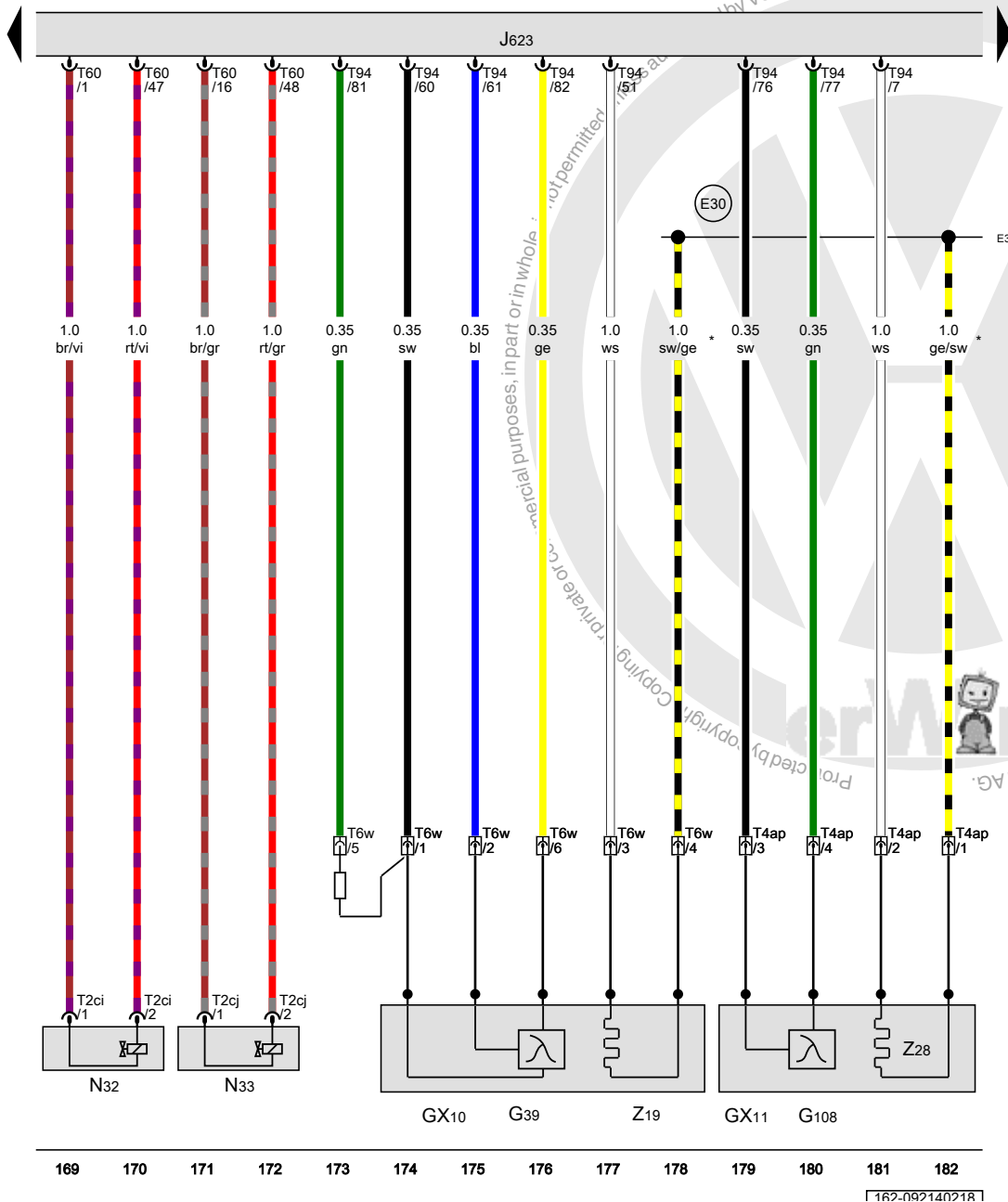
Engine/Motor Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector, EVAP Canister Purge Regulator Valve 1, Camshaft Adjustment Valve 1, Fuel Pressure Regulator Valve, Exhaust Camshaft Adjustment Valve 1, Decoupler Pressure Actuator

- J623 Engine/Motor Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N80 EVAP Canister Purge Regulator Valve 1
- N205 Camshaft Adjustment Valve 1
- N276 Fuel Pressure Regulator Valve
- N318 Exhaust Camshaft Adjustment Valve 1
- N511 Decoupler Pressure Actuator
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2dd 2-Pin Connector
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dv 2-Pin Connector
- T2ku 2-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector

D189 Connection 87A (in Engine Pre-Wiring Harness)

- * Diameter Depends on Equipment
- *2 Depending on Equipment

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- gn = green
- bl = blue
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink



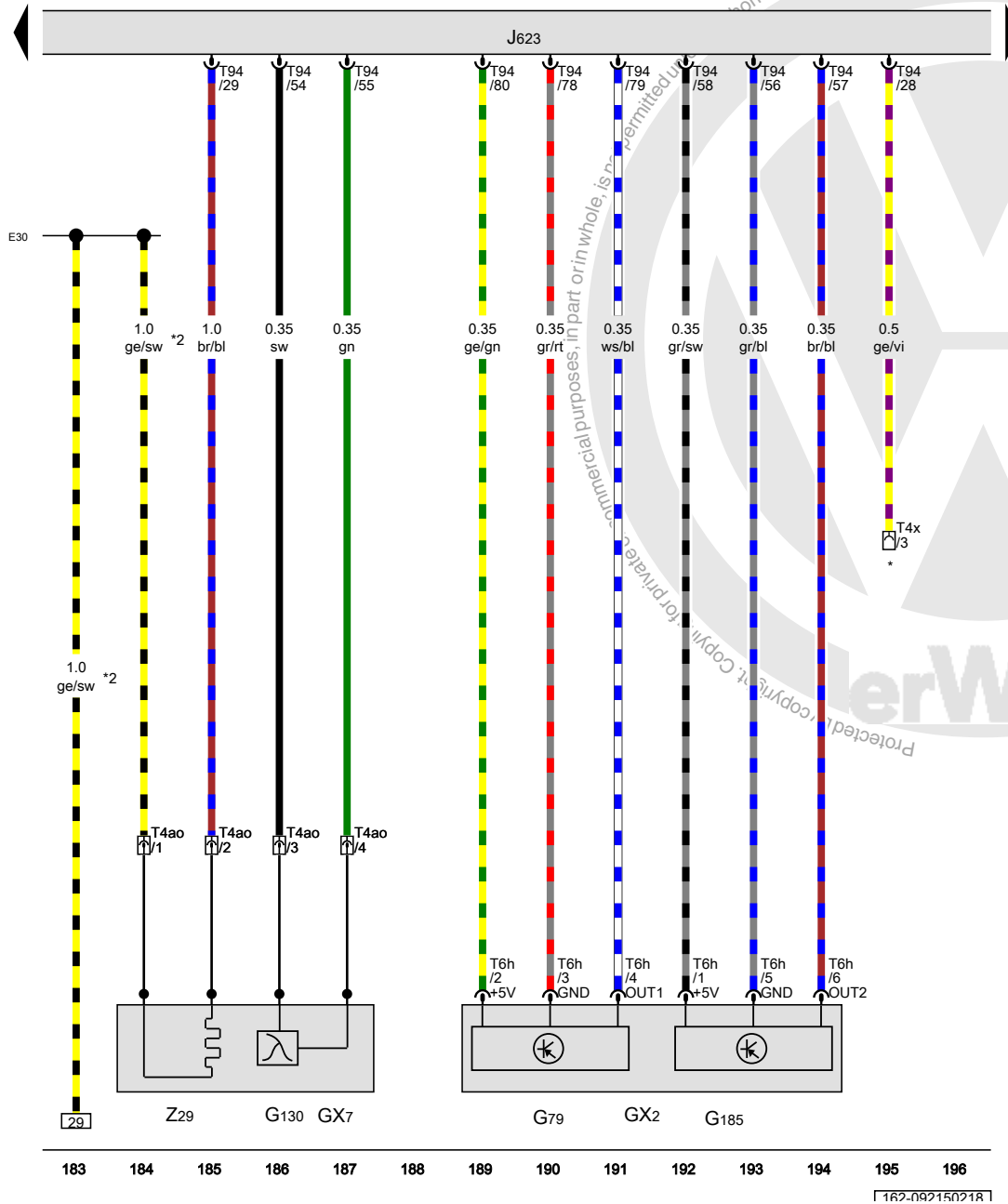
Oxygen Sensor 1 Before Catalytic Converter, Oxygen Sensor 2 Before Catalytic Converter, Heated Oxygen Sensor, Heated Oxygen Sensor 2, Engine/Motor Control Module, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector

- GX10 Oxygen Sensor 1 Before Catalytic Converter
- GX11 Oxygen Sensor 2 Before Catalytic Converter
- G39 Heated Oxygen Sensor
- G108 Heated Oxygen Sensor 2
- J623 Engine/Motor Control Module
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T4ap 4-Pin Connector
- T6w 6-Pin Connector, In the Engine/Motor Compartment, Rear
- T60 60-Pin Connector
- T94 94-Pin Connector
- Z19 Oxygen Sensor Heater
- Z28 Oxygen Sensor 2 Heater

E30 Connection 87A (in Engine Wiring Harness)

* The Color of the Wires Depends on Vehicle Equipment

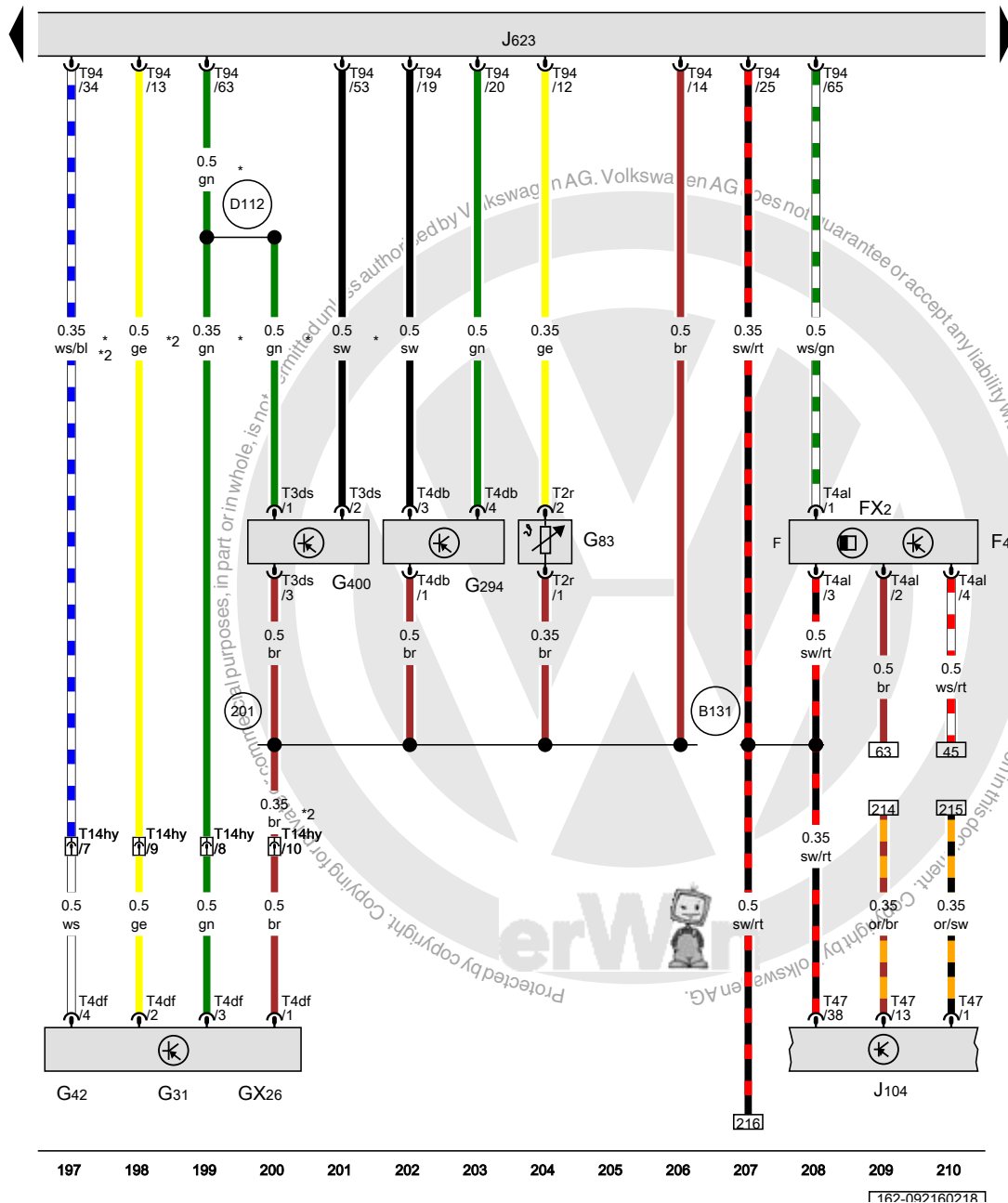
- ws = white
- sw = black
- ro = red
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- gn = green
- bl = blue
- gr = grey
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- rs = pink



Accelerator Pedal Module, Oxygen Sensor 1 After Catalytic Converter, Accelerator Pedal Position Sensor, Oxygen Sensor After Catalytic Converter, Accelerator Pedal Position Sensor 2, Engine/Motor Control Module

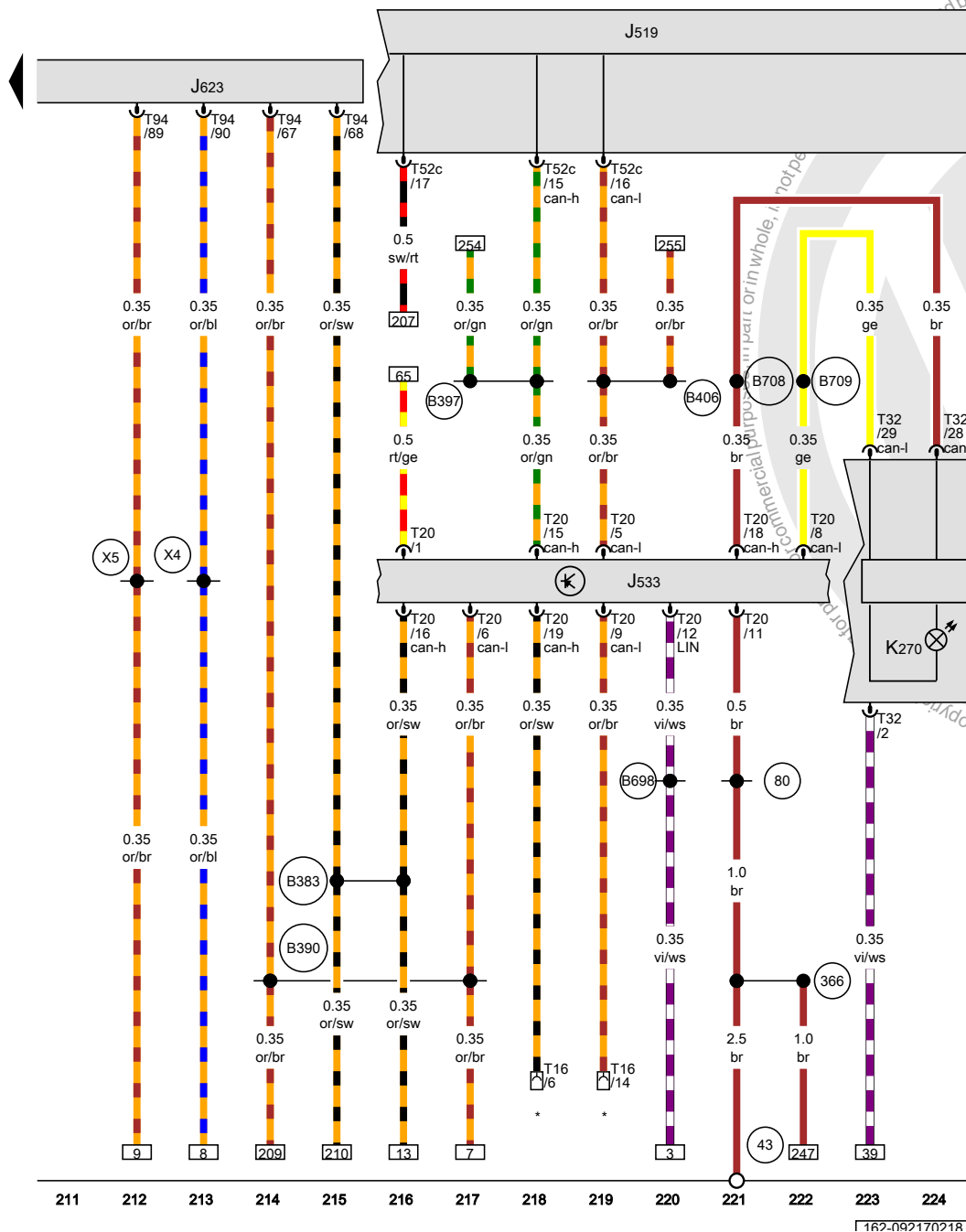
- GX2 Accelerator Pedal Module
- GX7 Oxygen Sensor 1 After Catalytic Converter
- G79 Accelerator Pedal Position Sensor
- G130 Oxygen Sensor After Catalytic Converter
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine/Motor Control Module
- T4ao 4-Pin Connector, Near the Oxygen Sensor
- T4x 4-Pin Connector
- T6h 6-Pin Connector
- T94 94-Pin Connector
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- E30 Connection 87A (in Engine Wiring Harness)
- * Radiator Fan Connection
- *2 The Color of the Wires Depends on Vehicle Equipment

ws = white
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 gr = grey
 li = lilac
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Brake Lamp Switch, Brake Pedal Switch, Charge Air Pressure Sensor, Charge Air Pressure Sensor, Intake Air Temperature Sensor, Engine Coolant Temperature Sensor on Radiator Outlet, Brake Booster Pressure Sensor, Fuel Tank Pressure Sensor, Engine/Motor Control Module

- F Brake Lamp Switch
- FX2 Brake Pedal Switch
- F47 Brake Pedal Switch
- GX26 Charge Air Pressure Sensor
- G31 Charge Air Pressure Sensor
- G42 Intake Air Temperature Sensor
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- G294 Brake Booster Pressure Sensor
- G400 Fuel Tank Pressure Sensor
- J104 ABS Control Module
- J623 Engine/Motor Control Module
- T2r 2-Pin Connector
- T3ds 3-Pin Connector
- T4al 4-Pin Connector
- T4db 4-Pin Connector
- T4df 4-Pin Connector
- T14hy 14-Pin Connector
- T47 47-Pin Connector
- T94 94-Pin Connector
- 201 Ground Connection 5 (in Engine/Motor Compartment Wiring Harness)
- B131 Connection 54 (in Interior Wiring Harness)
- D112 Connection 10 (in Engine/Motor Compartment Wiring Harness)
- * The Color of the Wires Depends on Vehicle Equipment
- *2 Diameter Depends on Equipment

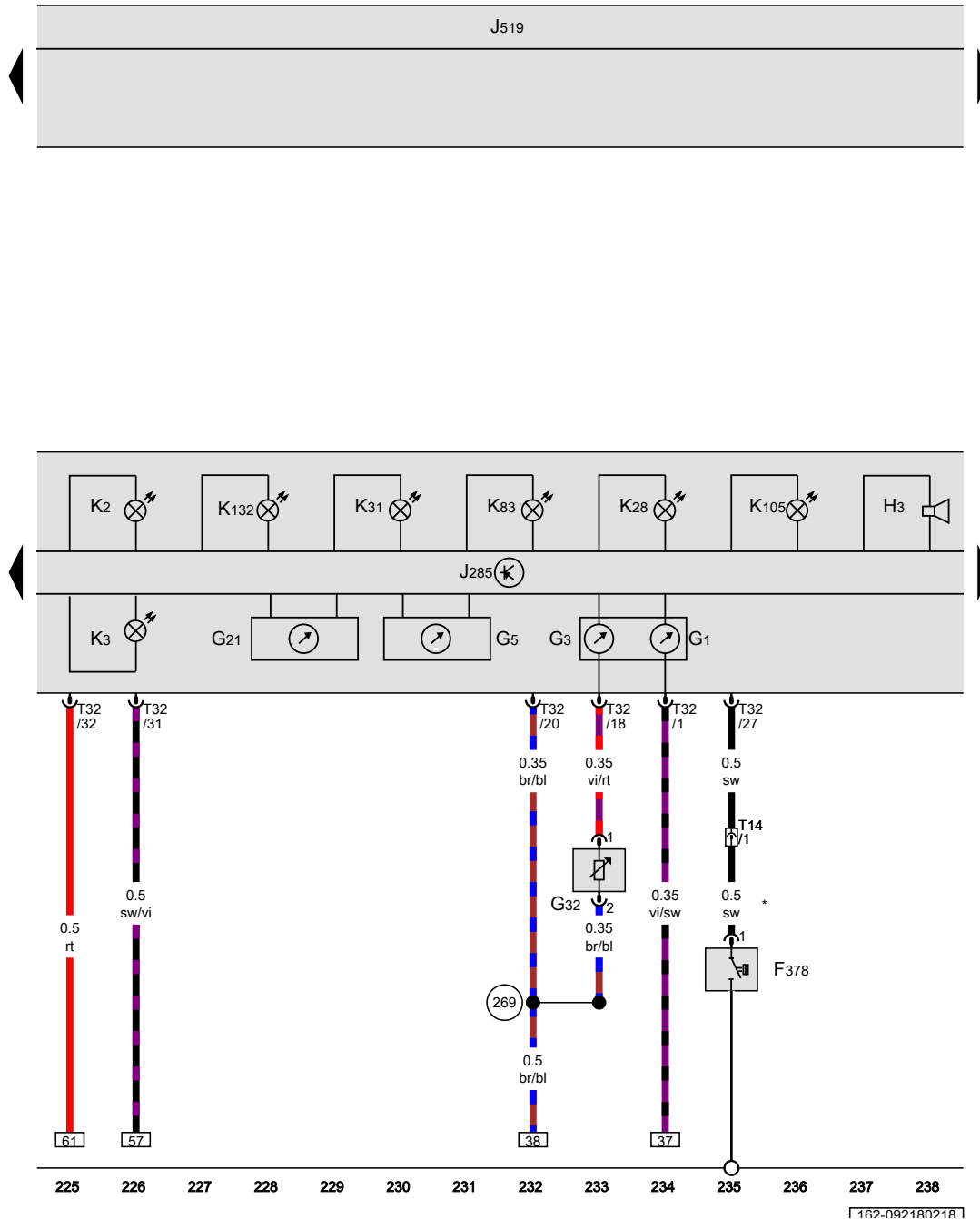


Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Engine/Motor Control Module, Electric Drive Indicator Lamp

- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine/Motor Control Module
- K270 Electric Drive Indicator Lamp
- T16 16-Pin Connector
- T20 20-Pin Connector
- T32 32-Pin Connector
- T52c 52-Pin Connector
- T94 94-Pin Connector

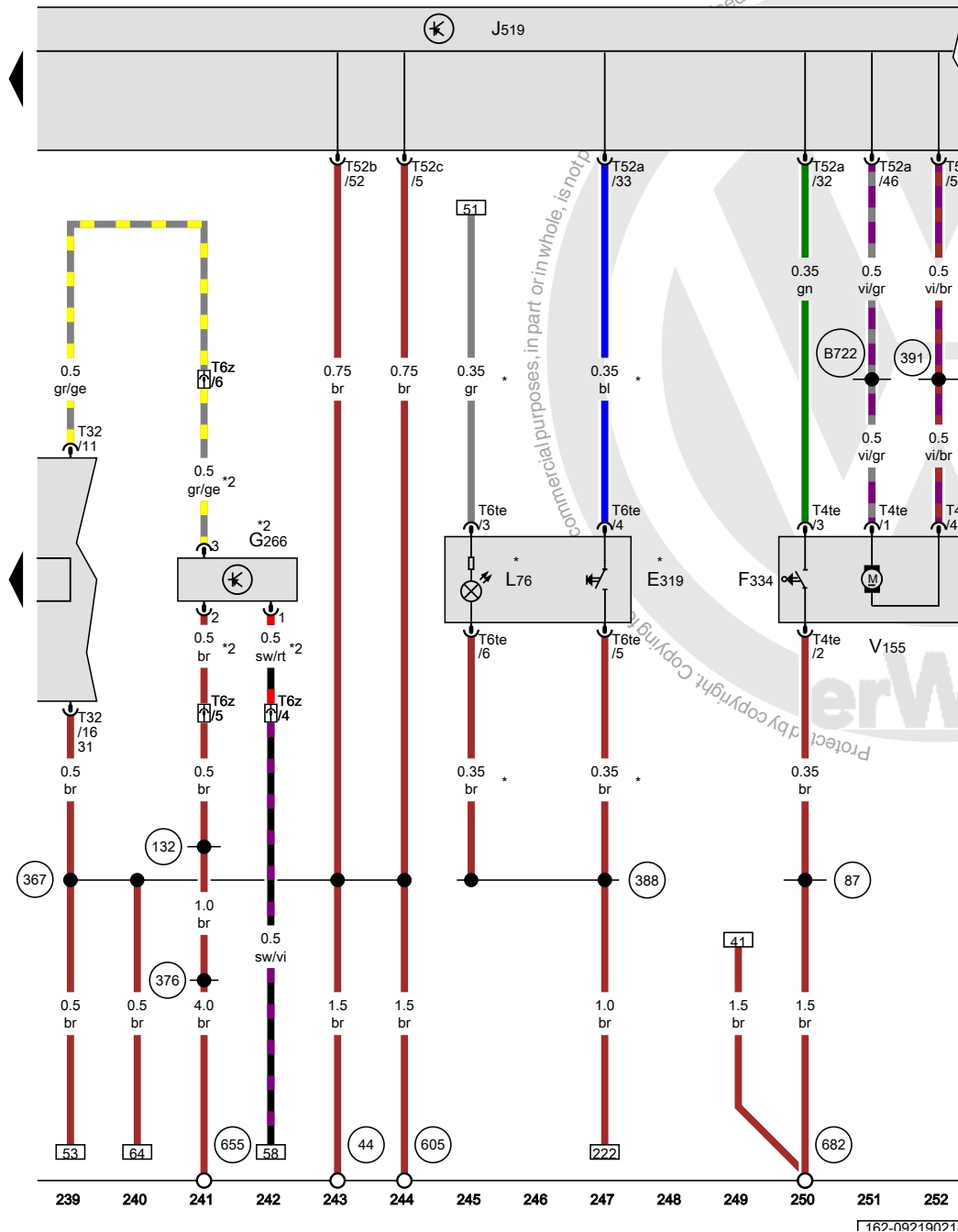
- 43 Ground Connection on A-Pillar, Lower Right
- 80 Ground Connection 1 (in Instrument Cluster Wiring Harness)
- 366 Ground Connection 1 (in Main Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- B397 Comfort System CAN Bus High Connection 1 (in Main Wiring Harness)
- B406 Comfort System CAN Bus Low Connection 1 (in Main Wiring Harness)
- B698 LIN Bus Connection 3 (in Main Wiring Harness)
- B708 Instrument Cluster CAN Bus High Connection 1 (in Main Wiring Harness)
- B709 Instrument Cluster CAN Bus Low Connection 1 (in Main Wiring Harness)
- X4 CAN Bus Hybrid High Connection 1 (in Engine/Motor Compartment Wiring Harness)
- X5 CAN Bus Hybrid Low Connection 1 (in Engine/Motor Compartment Wiring Harness)
- * Diagnostic Connector

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Reduced Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Generator Indicator Lamp, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- F378 Reduced Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K2 Generator Indicator Lamp
- K3 Oil Pressure Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- * The Color of the Wires Depends on Vehicle Equipment



Fuel Filler Door Release Button, Fuel Filler Detection Switch, Oil Level Thermal Sensor, Vehicle Electrical System Control Module, Push Button Illumination Bulb, Fuel Filler Door Lock Motor

- E319 Fuel Filler Door Release Button
- F334 Fuel Filler Detection Switch
- G266 Oil Level Thermal Sensor
- J519 Vehicle Electrical System Control Module
- L76 Push Button Illumination Bulb
- T4te 4-Pin Connector
- T6te 6-Pin Connector
- T6z 6-Pin Connector, Near the Left Headlamp
- T32 32-Pin Connector
- T52a 52-Pin Connector
- T52b 52-Pin Connector
- T52c 52-Pin Connector
- V155 Fuel Filler Door Lock Motor
- 44 Ground Connection on A-Pillar, Lower Left
- 87 Ground Connection 2 (in Rear Wiring Harness)
- 132 Ground Connection 3 (in Engine/Motor Compartment Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 388 Ground Connection 23 (in Main Wiring Harness)
- 391 Ground Connection 26 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- 655 Ground Connection on Left Headlamp
- 682 Ground Connection 2 in Right Rear Side Panel
- B722 Central Locking Connection 3 (in Main Wiring Harness)
- * Depending on Equipment
- *2 For Vehicles with Flexible Service Interval Display

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 gr = grey
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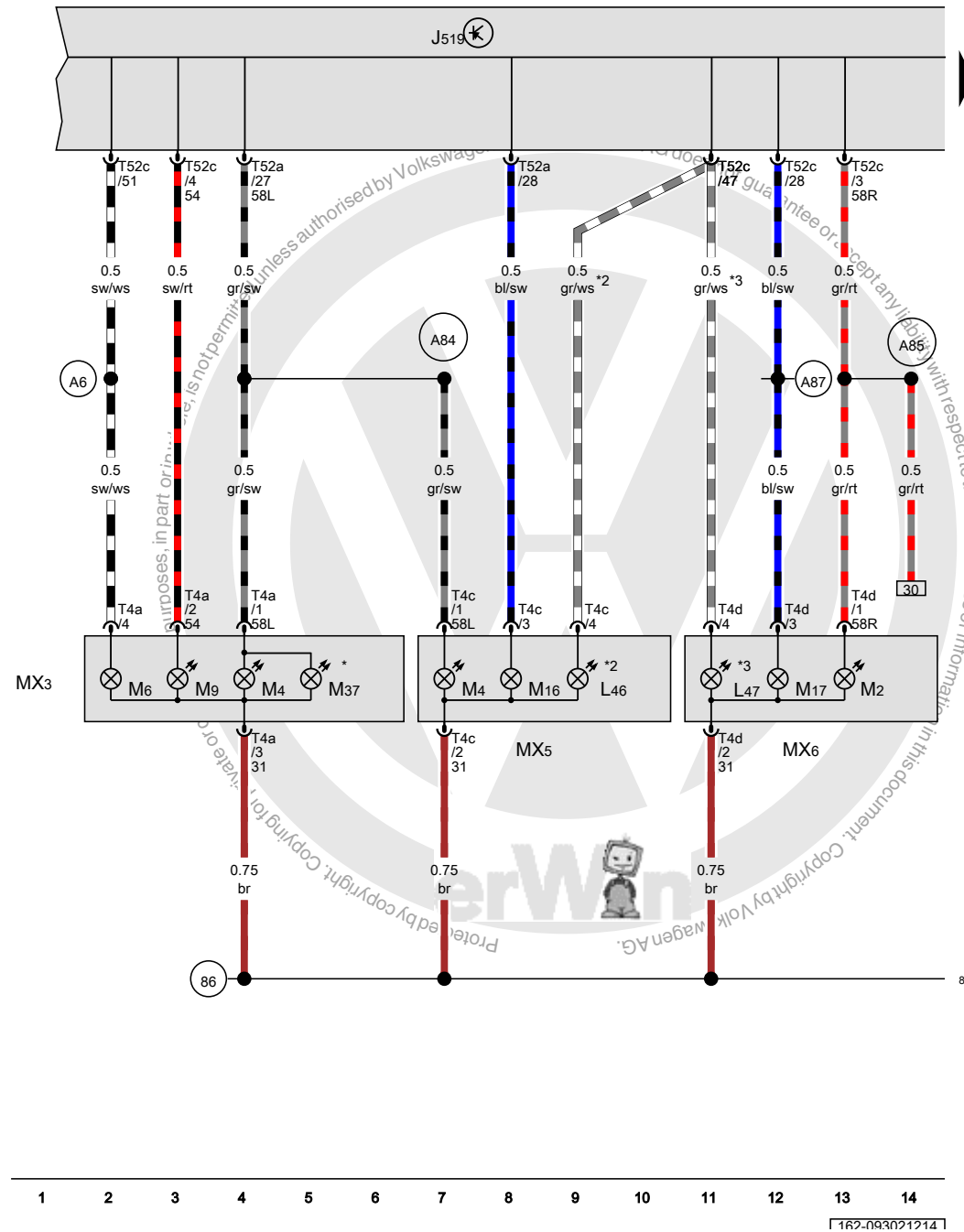
| | |
|------|--|
| E319 | Fuel Filler Door Release Button, In the Driver Door |
| J386 | Driver Door Control Module |
| L76 | Push Button Illumination Bulb |
| T4ac | 4-Pin Connector |
| T20a | 20-Pin Connector |
| T28 | 28-Pin Connector, Left A-Pillar, Bottom |
| T32a | 32-Pin Connector |
| 205 | Ground Connection (in Driver Door Wiring Harness) |
| Q38 | Positive Connection 1 (58b) (in Power Window Wiring Harness) |
| * | Depending on Equipment |

162-092200218

Tail lamps with LEDs , (8SK)

from June 2012



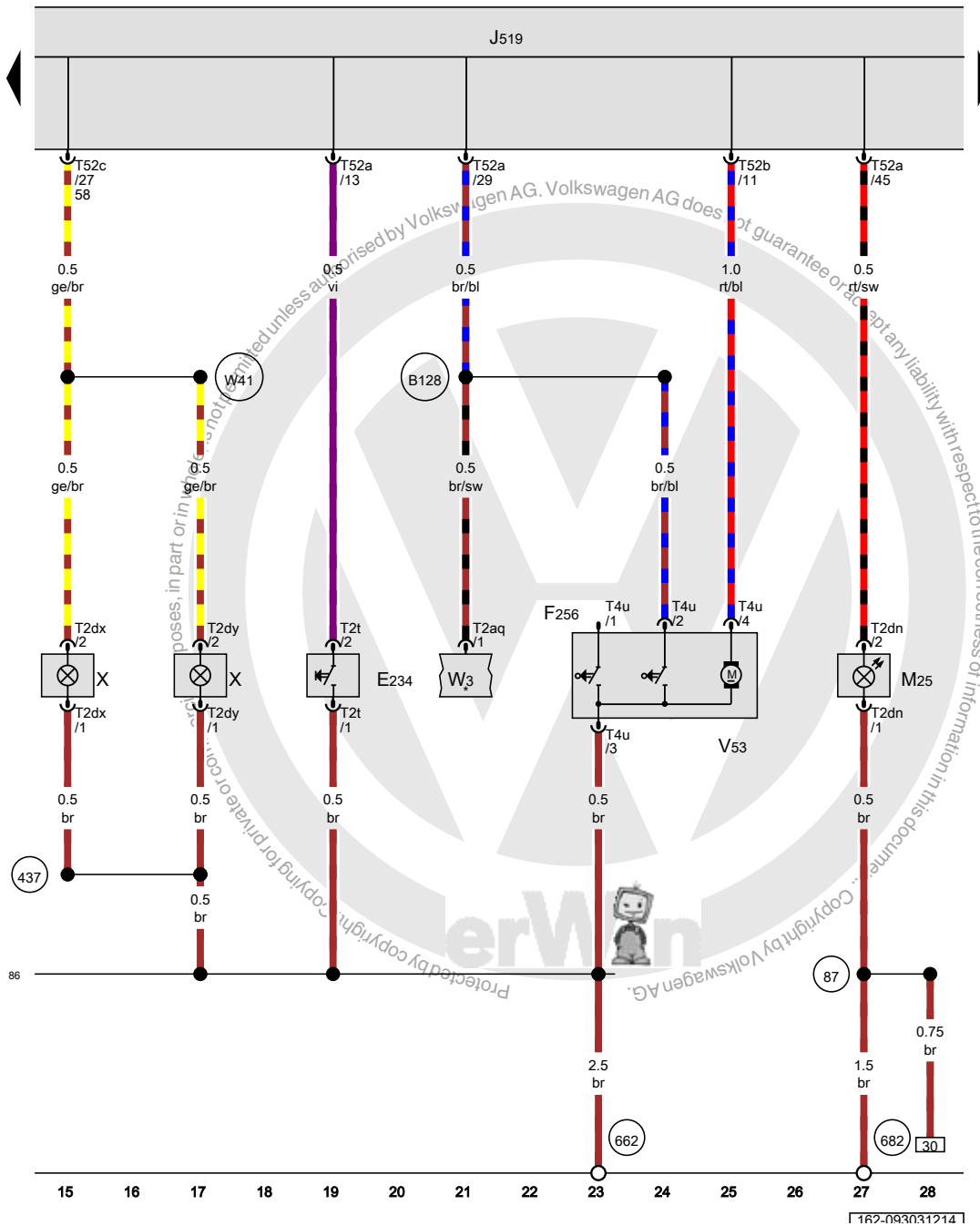


Vehicle electrical control module system, Right tail lamp bulb, Left tail lamp, Left tail lamp bulb, Left tail lamp 2, Left rear turn signal bulb, Right tail lamp 2, Left brake lamp bulb, Left back-up lamp bulb, Right back-up lamp bulb

- J519 Vehicle electrical control module system
- L46 Left rear fog lamp bulb
- L47 Right rear fog lamp bulb
- M2 Right tail lamp bulb
- MX3 Left tail lamp
- M4 Left tail lamp bulb
- MX5 Left tail lamp 2
- M6 Left rear turn signal bulb
- MX6 Right tail lamp 2
- M9 Left brake lamp bulb
- M16 Left back-up lamp bulb
- M17 Right back-up lamp bulb
- M37 Left rear side marker lamp bulb
- T4a 4-pin connector
- T4c 4-pin connector
- T4d 4-pin connector
- T52a 52-pin connector
- T52c 52-pin connector

- 86 Ground connection 1 (in rear wiring harness)
- A6 Left turn signal positive connection (in instrument panel wiring harness)
- A84 Connection 58L (in instrument panel wiring harness)
- A85 Connection 58R (in instrument panel wiring harness)
- A87 Back-up lamp connection (in instrument panel wiring harness)
- * USA only
- *2 Not for USA
- *3 Only for right-hand drive vehicles

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 sw = black
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 vi = lilac
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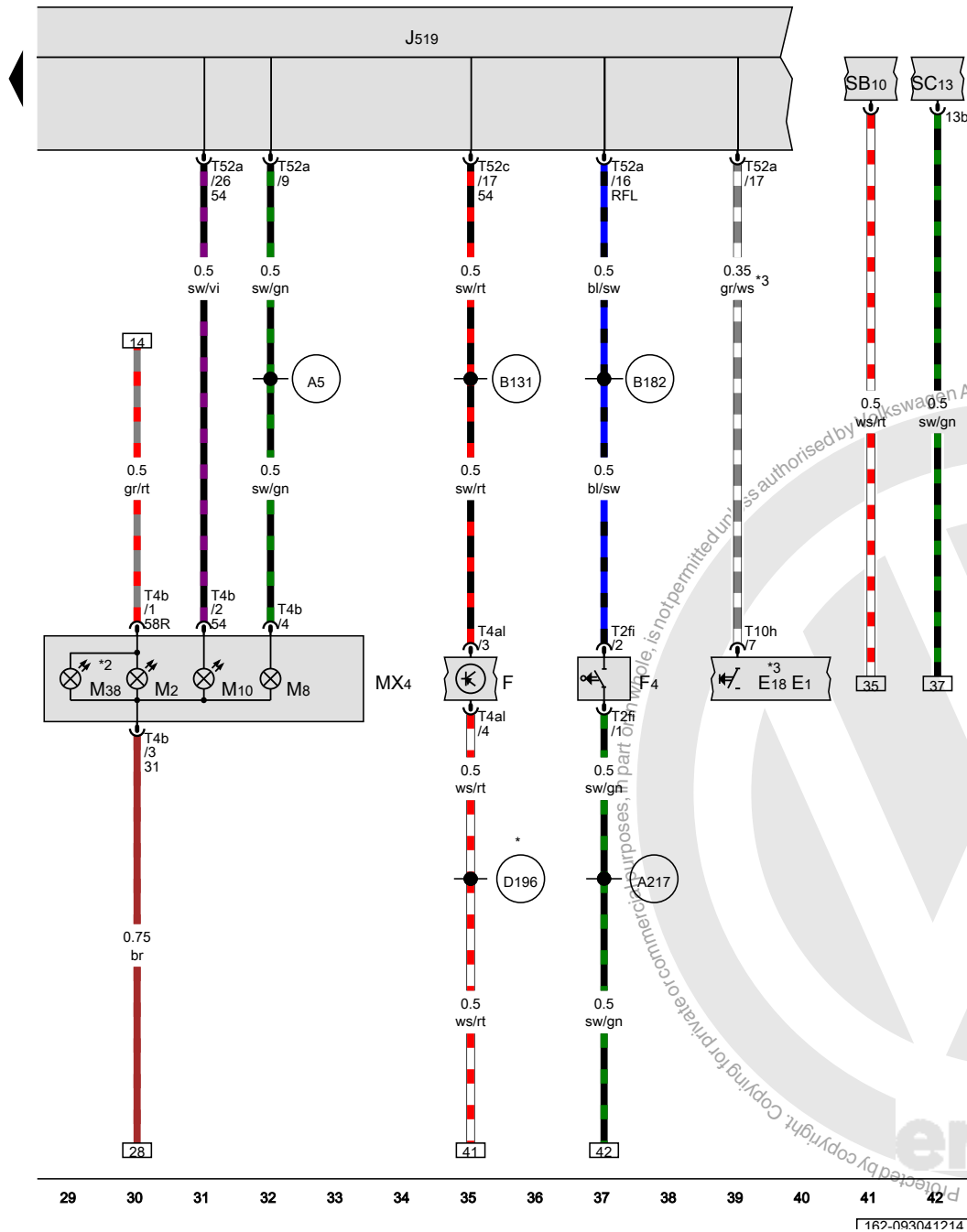
Release button in rear lid handle, Rear lid lock unit, Vehicle electrical control module system, High-mounted brake lamp bulb, Rear lid central locking system motor, License plate lamp

- E234 Release button in rear lid handle
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- M25 High-mounted brake lamp bulb
- T2aq Double connector
- T2dn Double connector
- T2dx Double connector
- T2dy Double connector
- T2t Double connector
- T4u 4-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V53 Rear lid central locking system motor
- W3 Luggage compartment lamp
- X License plate lamp

- 86 Ground connection 1 (in rear wiring harness)
- 87 Ground connection 2 (in rear wiring harness)
- 437 Ground connection (in license plate lamp wiring harness)
- 662 Ground connection in left rear side panel
- 682 Ground connection 2 in right rear side panel
- B128 Luggage compartment lamp connection (in interior wiring harness)
- W41 Positive connection (58) (in license plate lamp wiring harness)
- * Refer to applicable standard equipment wiring diagram

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- or = orange
- rs = pink

Brake lamp switch, Vehicle electrical control module system, Right tail lamp bulb, Right tail lamp, Right rear turn signal bulb, Right rear side marker lamp bulb



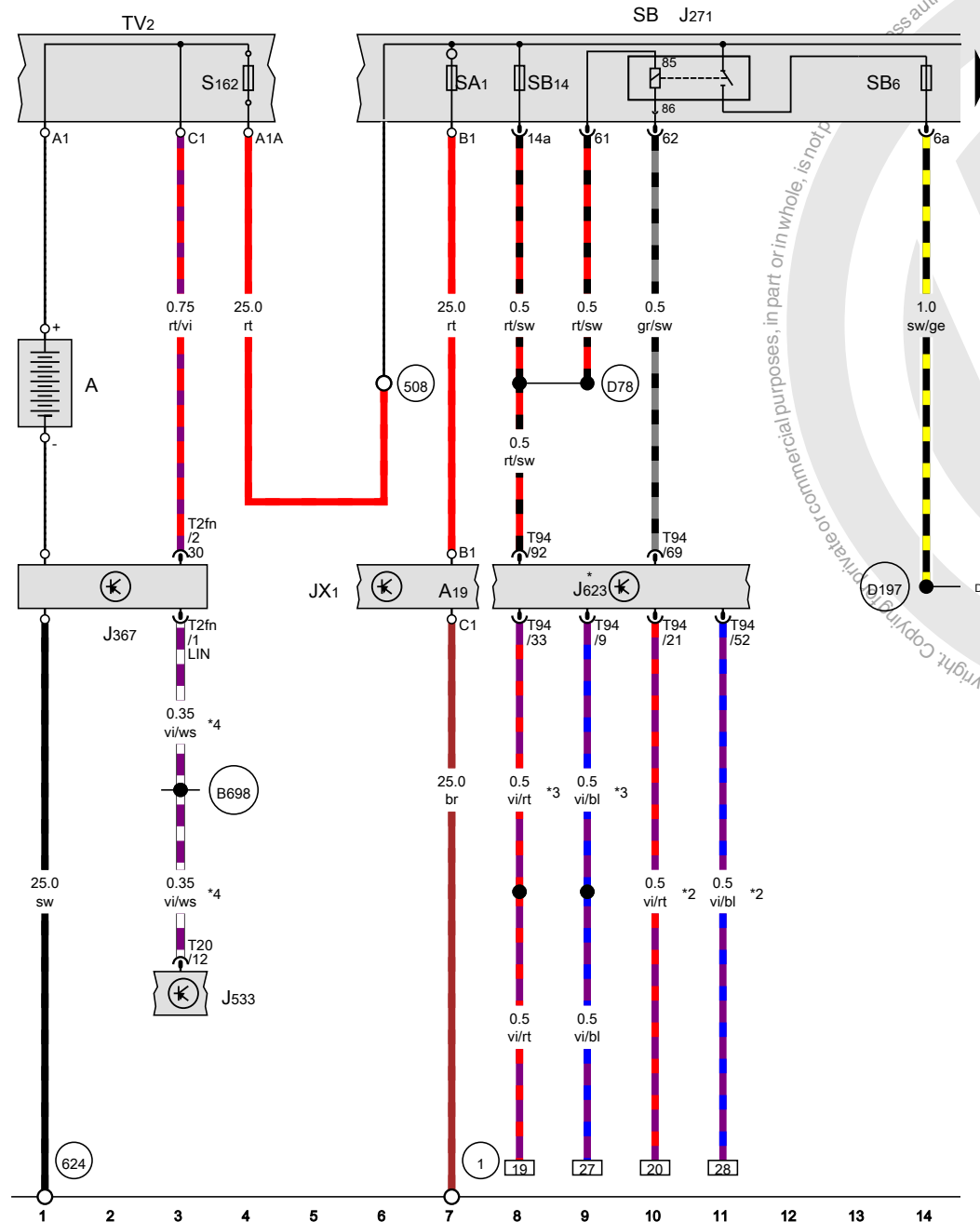
- E1 Light switch
- E18 Rear fog lamp switch
- F Brake lamp switch
- F4 Back-up lamp switch
- J519 Vehicle electrical control module system
- M2 Right tail lamp bulb
- MX4 Right tail lamp
- M8 Right rear turn signal bulb
- M10 Right brake lamp bulb
- M38 Right rear side marker lamp bulb
- SB10 Fuse 10 (on fuse panel B)
- SC13 Fuse 13 (on fuse panel C)
- T2fi Double connector
- T4al 4-pin connector
- T4b 4-pin connector
- T10h 10-pin connector
- T52a 52-pin connector
- T52c 52-pin connector
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B131 Connection 54 (in interior wiring harness)
- B182 Connection RF (in interior wiring harness)
- D196 Connection 87a (in engine pre-wiring harness) 2
- * Depending on equipment
- *2 USA only
- *3 Not for USA

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Auxiliary air heater (PTC) , CNLA,CRJA

from June 2012



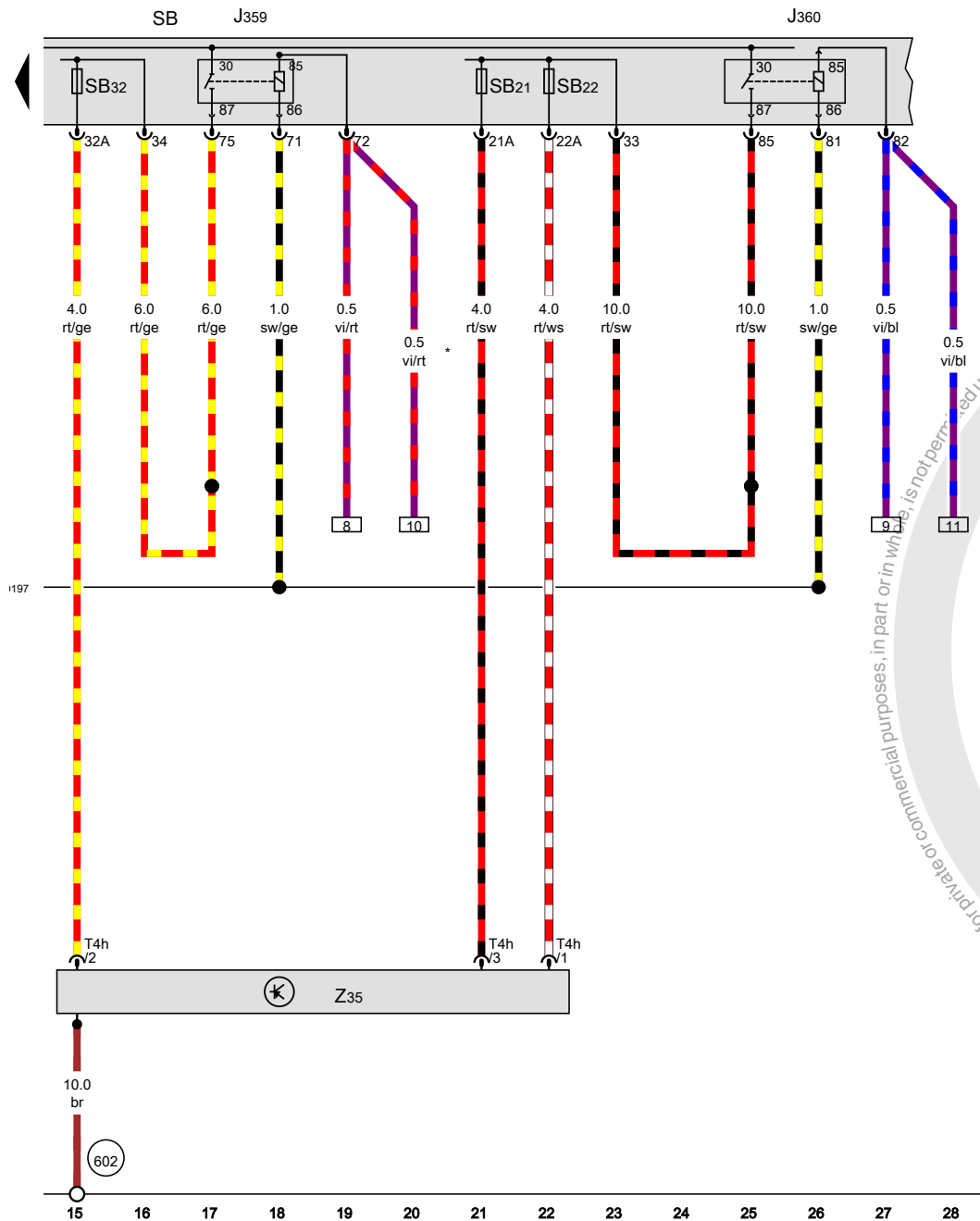


Motronic engine control module power supply relay

- A Battery
- A19 Voltage converter
- JX1 Electric drive power and control electronics
- J271 Motronic engine control module power supply relay
- J367 Battery monitoring control module
- J533 Data bus on board diagnostic interface
- J623 Engine control module
- SA1 Fuse 1 (on fuse panel A)
- S162 Fuse 1 (terminal 30) on battery fuse panel
- SB Fuse panel B
- SB6 Fuse 6 (on fuse panel B)
- SB14 Fuse 14 (on fuse panel B)
- T2fn Double connector
- TV2 Terminal 30 wire junction
- T20 20-pin connector
- T94 94-pin connector
- 1 Ground strap, battery to body
- 508 Terminal 30 threaded connection (on E-box)
- 624 Ground connection near starter battery
- B698 LIN bus connection 3 (in main wiring harness)
- D78 Positive connection 1 (30a) (in engine compartment wiring harness)
- D197 Connection 5 (87a) (in engine compartment wiring harness)
- * Refer to applicable engine wiring diagram
- *2 Not for USA
- *3 USA only
- *4 The color of the wires depends on vehicle equipment

ws = white
 sw = black
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 rt = red
 br = brown
 gn = green
 bl = blue
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 or = orange
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162-094020114



Low heat output relay, High heat output relay, Auxiliary heater heating element

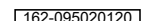
- J359 Low heat output relay
- J360 High heat output relay
- SB Fuse panel B
- SB21 Fuse 21 (on fuse panel B)
- SB22 Fuse 22 (on fuse panel B)
- SB32 Fuse 32 (on fuse panel B)
- T4h 4-pin connector
- Z35 Auxiliary heater heating element
- 602 Ground connection in left front footwell
- D197 Connection 5 (87a) (in engine compartment wiring harness)
- * Not for USA

ws = white
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 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
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2.0L Diesel Engine , CJAA,(AW0)

From November 2012





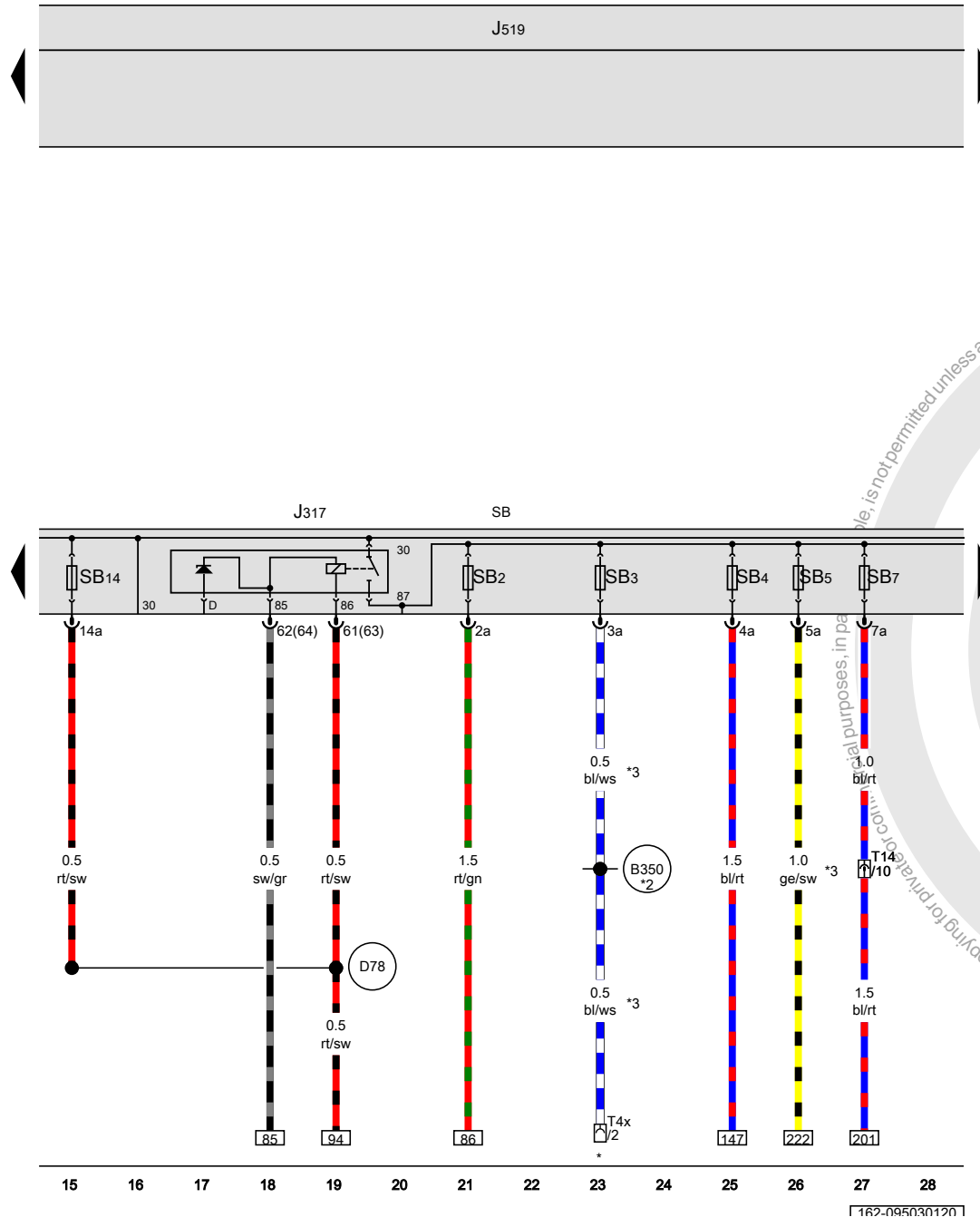
| | |
|------|--|
| A | Battery |
| B | Starter |
| C | Generator |
| C1 | Voltage Regulator |
| J519 | Vehicle Electrical System Control Module |
| SA1 | Fuse 1 (On Fuse Panel A) |
| SA4 | Fuse 4 (On Fuse Panel A) |
| SB | Fuse Panel B |
| T2 | 2-Pin Connector |
| T2i | 2-Pin Connector, Near the Starter |
| T4t | 4-Pin Connector, Near the Starter |
| T73b | 73-Pin Connector |

- * For Vehicles with A/C System
*2 Omitted as a Running Change
*3 For Vehicles Without an A/C System
*4 Running Change

01.2020

Terminal 30 Power Supply Relay, Vehicle Electrical System Control Module, Fuse Panel B, Fuse 14 (On Fuse Panel B)

- J317 Terminal 30 Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB4 Fuse 4 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB7 Fuse 7 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- T4x 4-Pin Connector
- T14 14-Pin Connector
- B350 Positive Connection 1 (87a) (in Main Wiring Harness)
- D78 Positive Connection 1 (30a) (in Engine/Motor Compartment Wiring Harness)
- * Radiator Fan Connection
- *2 Running Change
- *3 The Color of the Wires Depends on Vehicle Equipment



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li = lilac
vi = lilac
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or = orange
rs = pink

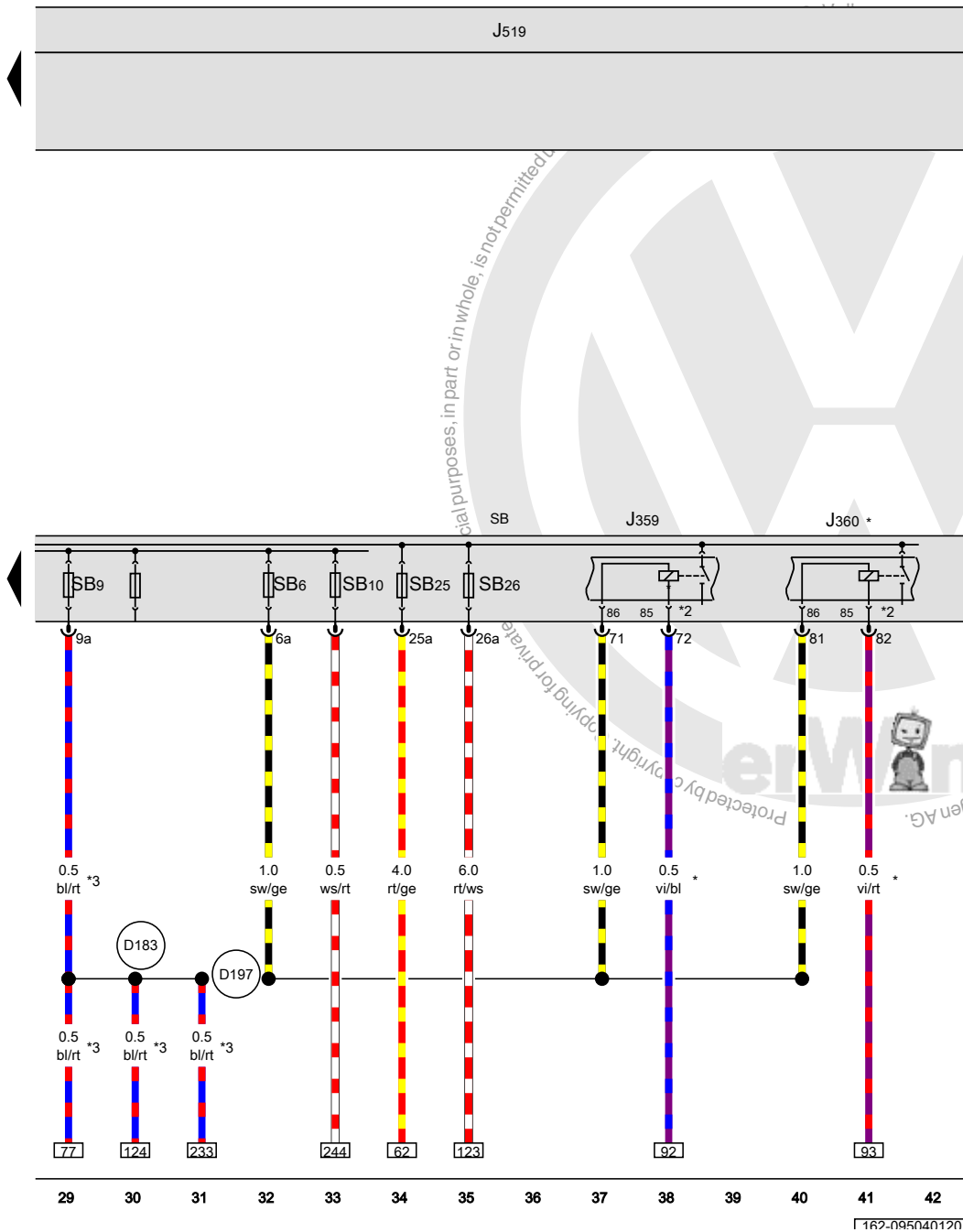
Low Heat Output Relay, High Heat Output Relay, Vehicle Electrical System Control Module, Fuse Panel B

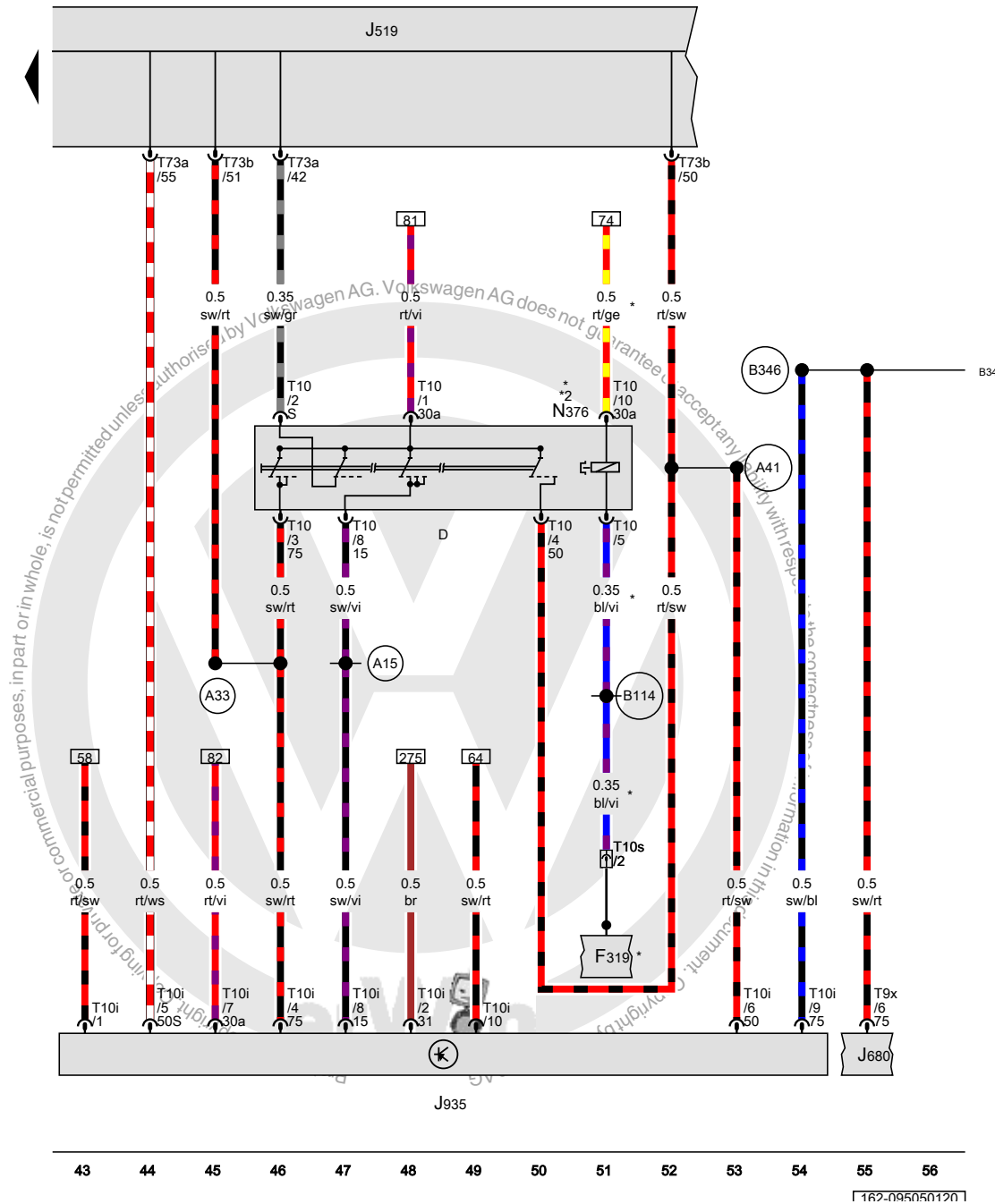
- J359 Low Heat Output Relay
- J360 High Heat Output Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB6 Fuse 6 (On Fuse Panel B)
- SB9 Fuse 9 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- SB26 Fuse 26 (On Fuse Panel B)

D183 Connection 4 (87A) (in Engine/Motor Compartment Wiring Harness)

D197 Connection 5 (87A) (in Engine/Motor Compartment Wiring Harness)

For Vehicles with Auxiliary Heater
Refer to Applicable Wiring Diagram
The Color of the Wires Depends on Vehicle Equipment



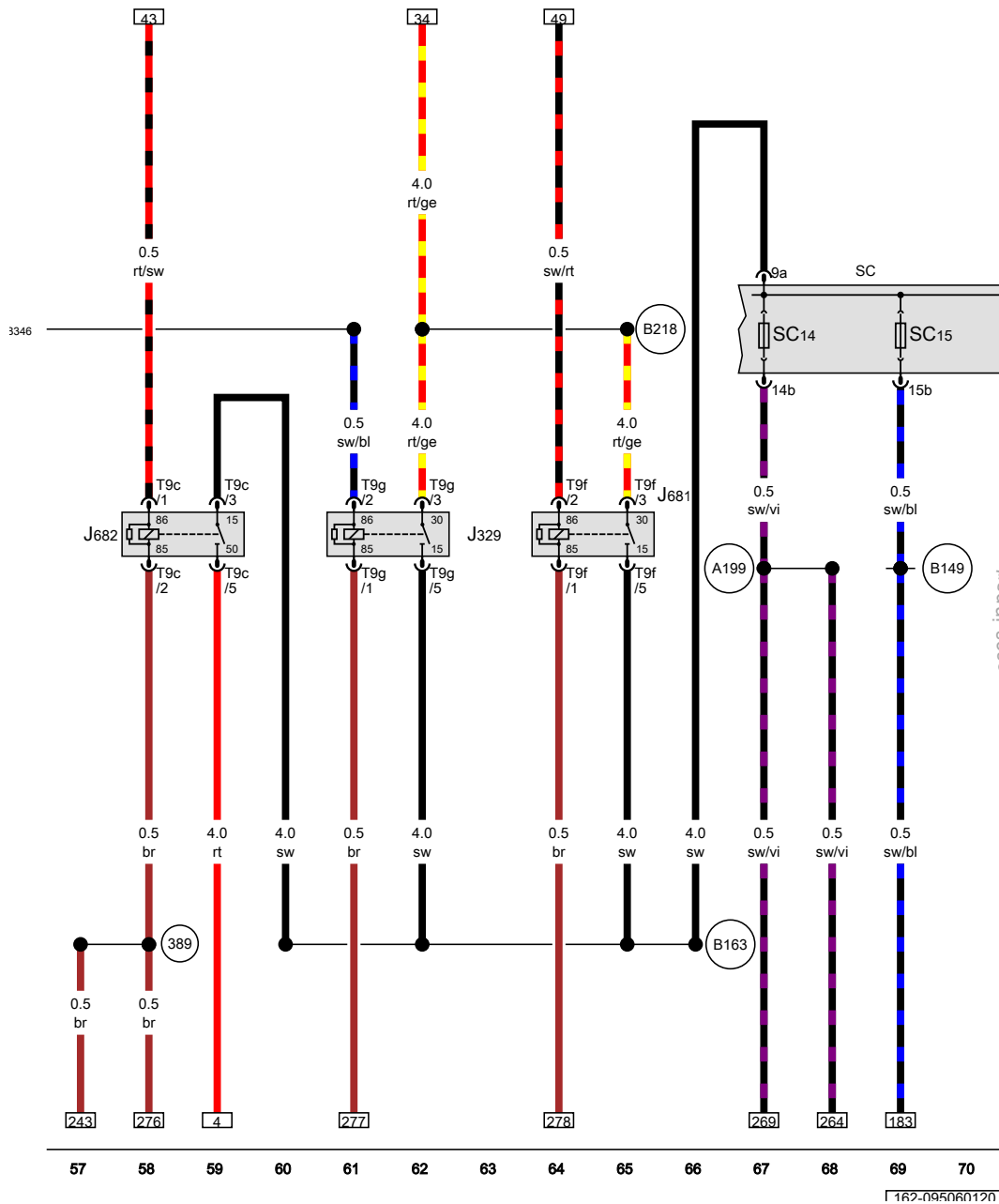


Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box

- D Ignition/Starter Switch
- F319 Selector Lever Park Position Lock Switch
- J519 Vehicle Electrical System Control Module
- J680 Terminal 75 Power Supply Relay 1
- J935 Converter Box
- N376 Ignition Switch Key Lock Solenoid
- T9x 9-Pin Connector
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T10s 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- A15 Plus Connection (15) (in Instrument Cluster Wiring Harness)
- A33 Connection 75 (in Instrument Panel Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- B114 Lock Switch Connection (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1

- * For Vehicles with Automatic Transmission
- *2 For Vehicles with Automatic Transmission (DSG)

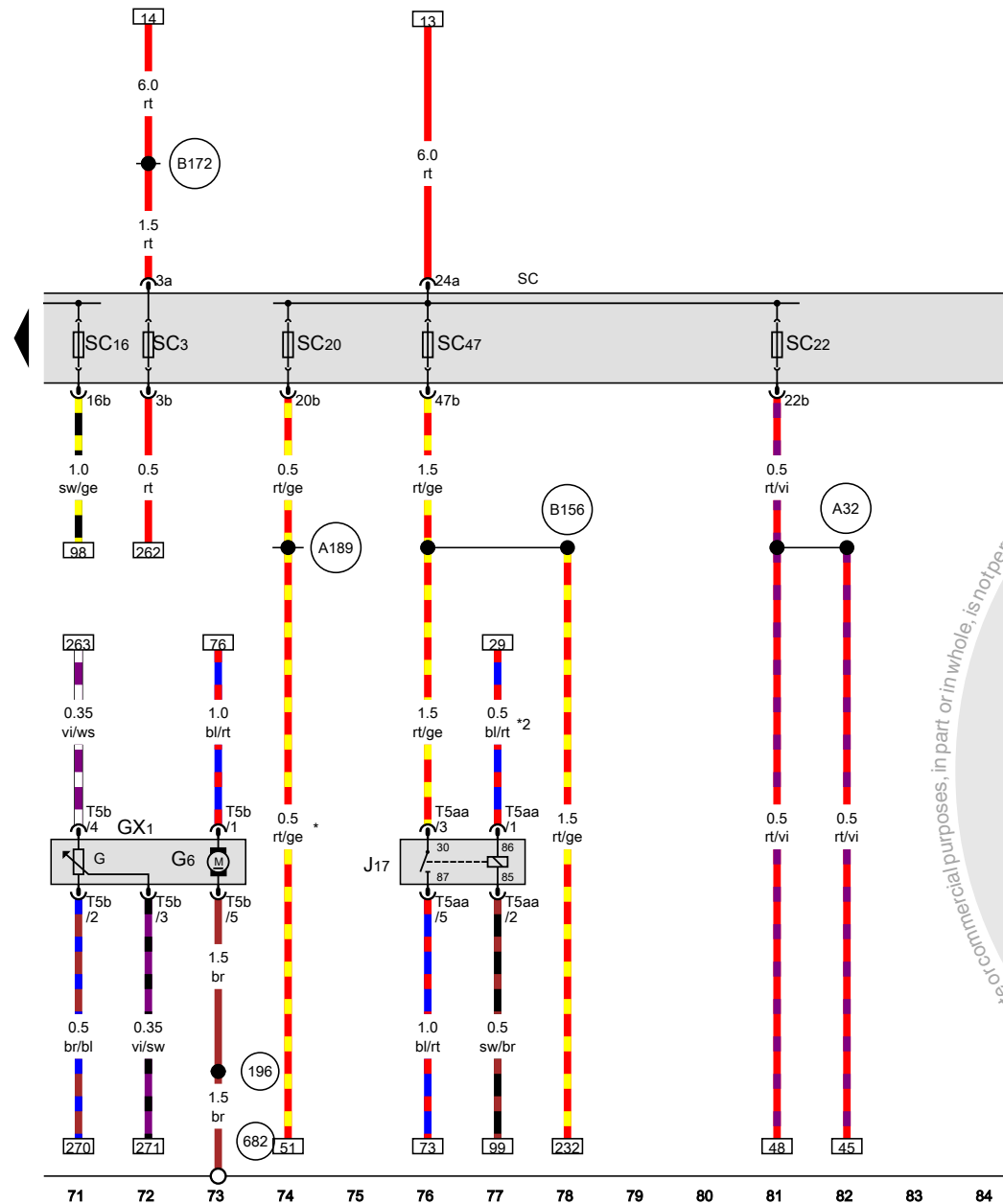


Terminal 15 Power Supply Relay, Terminal 15 Power Supply Relay 2, Terminal 50 Power Supply Relay, Fuse Panel C

- J329 Terminal 15 Power Supply Relay
- J681 Terminal 15 Power Supply Relay 2
- J682 Terminal 50 Power Supply Relay
- SC Fuse Panel C
- SC14 Fuse 14 (On Fuse Panel C)
- SC15 Fuse 15 (On Fuse Panel C)
- T9c 9-Pin Connector
- T9f 9-Pin Connector
- T9g 9-Pin Connector

- 389 Ground Connection 24 (in Main Wiring Harness)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- B149 Positive Connection 2 (15a) (in Interior Wiring Harness)
- B163 Positive Connection 1 (15) (in Interior Wiring Harness)
- B218 Positive Connection 6 (30) (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1

Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Fuel Pump Relay, Fuse Panel C

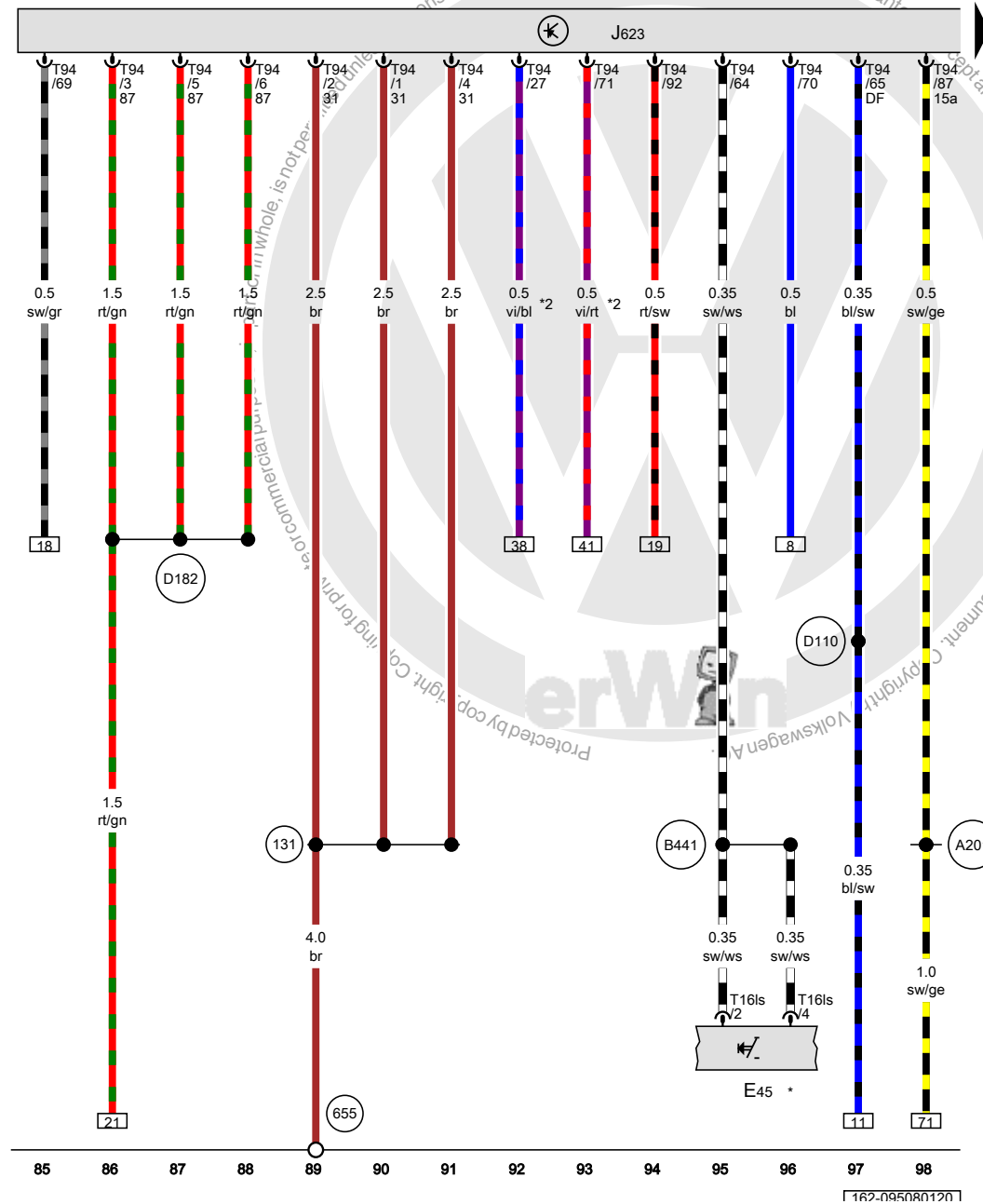


- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J17 Fuel Pump Relay
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC20 Fuse 20 (On Fuse Panel C)
- SC22 Fuse 22 (On Fuse Panel C)
- SC47 Fuse 47 (On Fuse Panel C)
- T5aa 5-Pin Connector
- T5b 5-Pin Connector

- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- A32 Positive Connection (30) (in Instrument Panel Wiring Harness)
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- B156 Positive Connection 30a (in Interior Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- * For Vehicles with Automatic Transmission
- *2 The Color of the Wires Depends on Vehicle Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

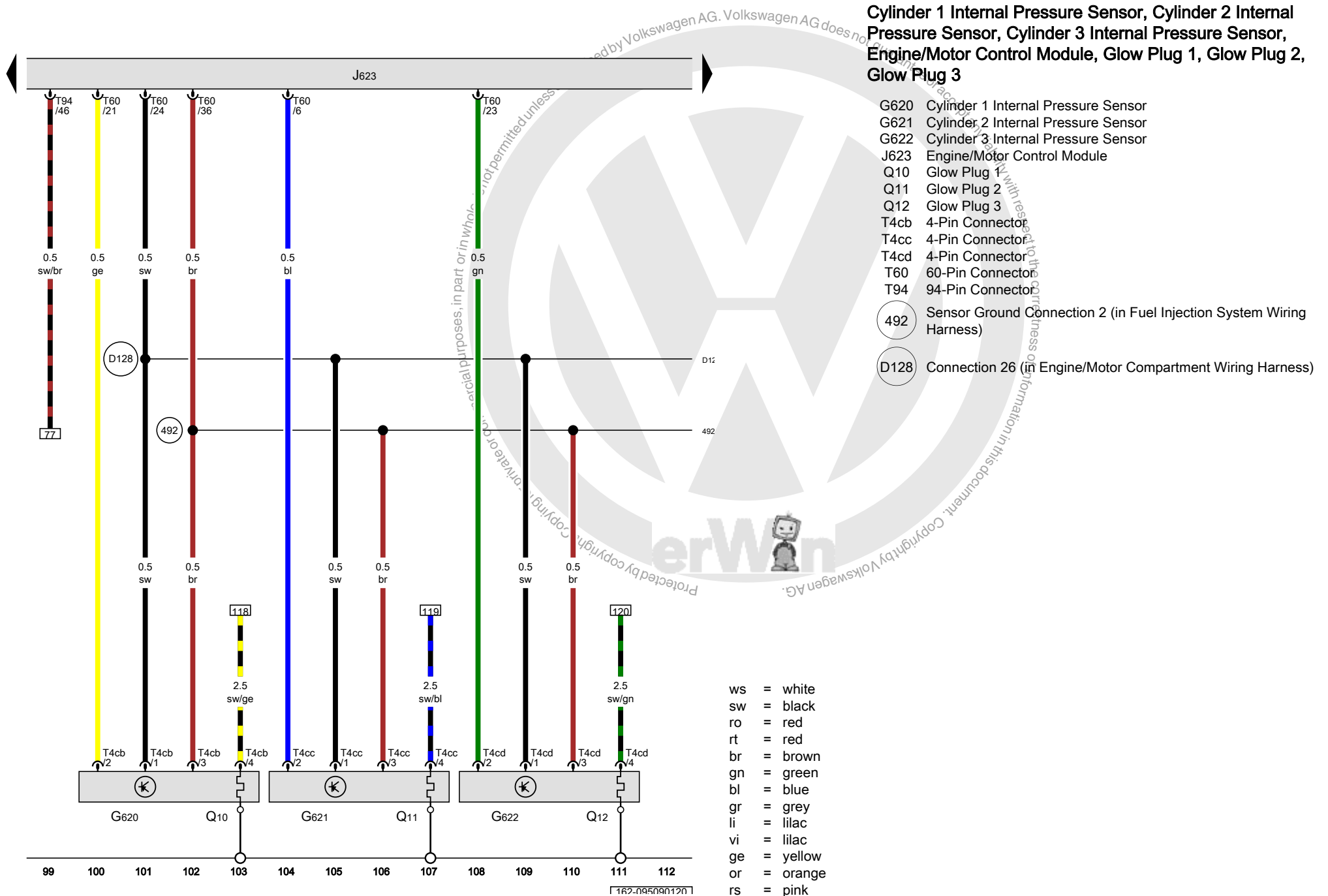
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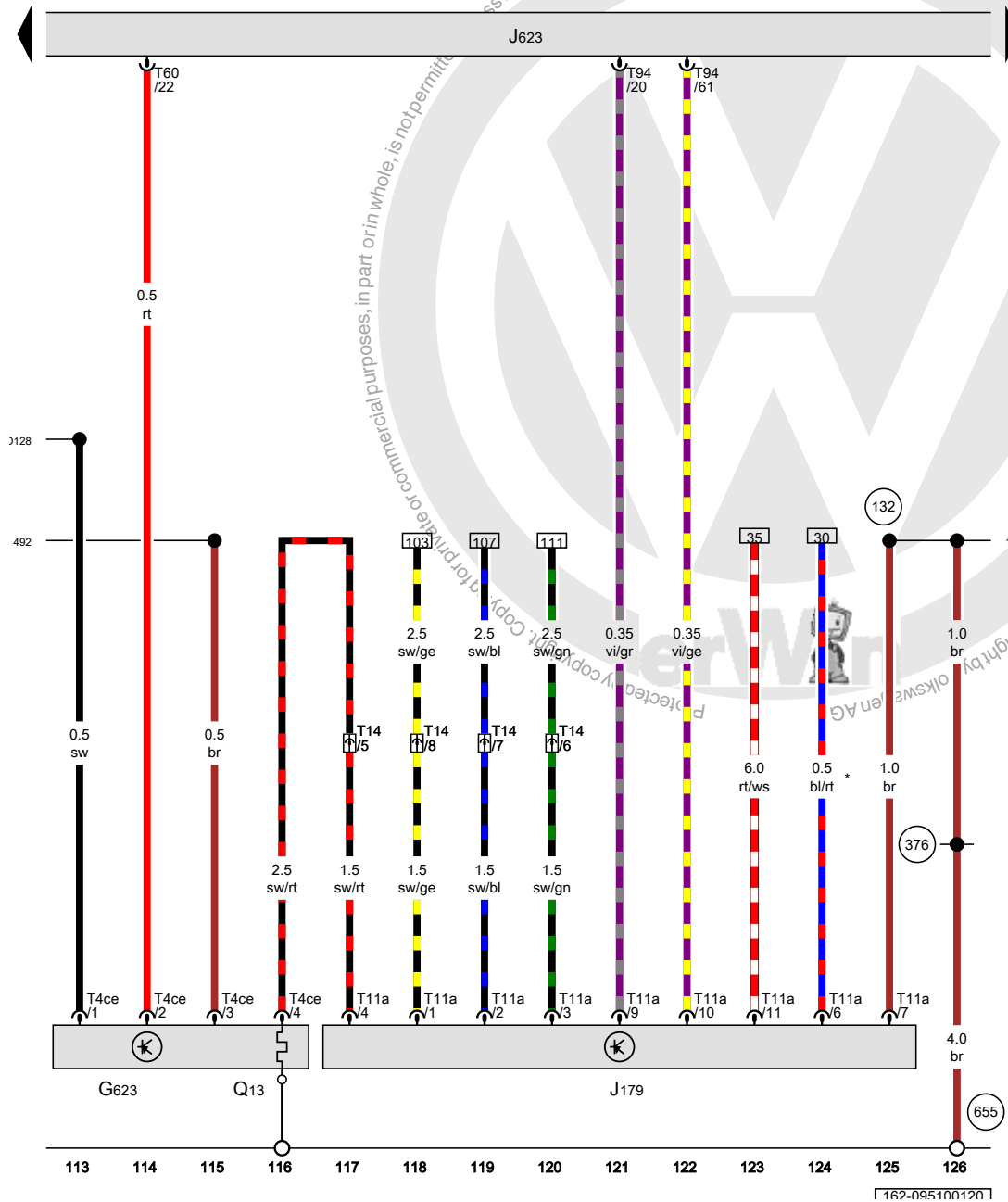


Engine/Motor Control Module

- E45 Cruise Control Switch
- J623 Engine/Motor Control Module
- T16ls 16-Pin Connector
- T94 94-Pin Connector

- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B441 Cruise Control Connection (in Main Wiring Harness)
- D110 Connection 8 (in Engine/Motor Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine/Motor Compartment Wiring Harness)
- * For Vehicles with Cruise Control System
- *2 For Vehicles with Auxiliary Heater

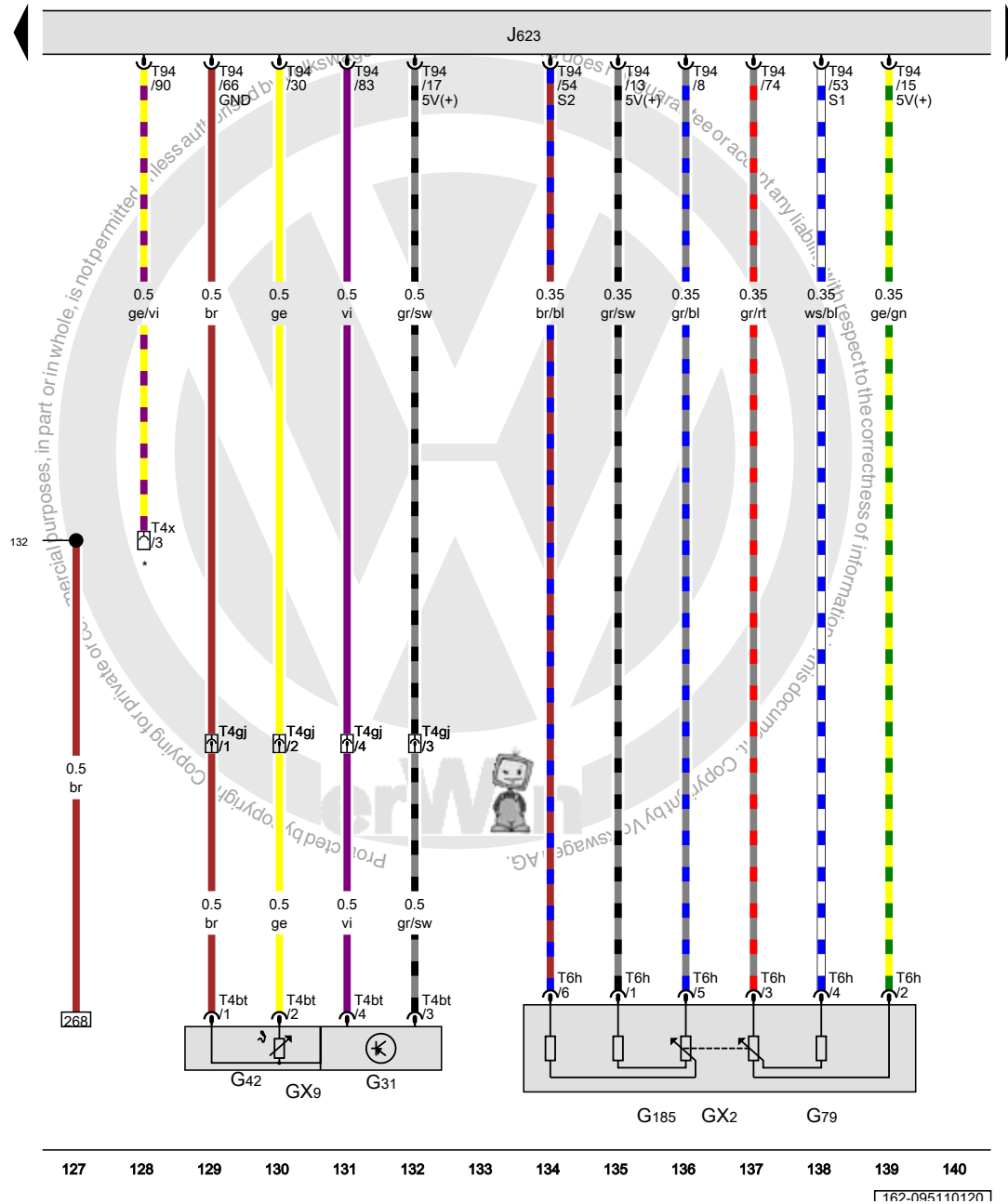




Cylinder 4 Internal Pressure Sensor, Automatic Glow Time Control Module, Engine/Motor Control Module, Glow Plug 4

- G623 Cylinder 4 Internal Pressure Sensor
- J179 Automatic Glow Time Control Module
- J623 Engine/Motor Control Module
- Q13 Glow Plug 4
- T4ce 4-Pin Connector
- T11a 11-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- 132 Ground Connection 3 (in Engine/Motor Compartment Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 492 Sensor Ground Connection 2 (in Fuel Injection System Wiring Harness)
- 655 Ground Connection on Left Headlamp
- D128 Connection 26 (in Engine/Motor Compartment Wiring Harness)
- * The Color of the Wires Depends on Vehicle Equipment

ws = white
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 br = brown
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 gr = grey
 li = lilac
 vi = lilac
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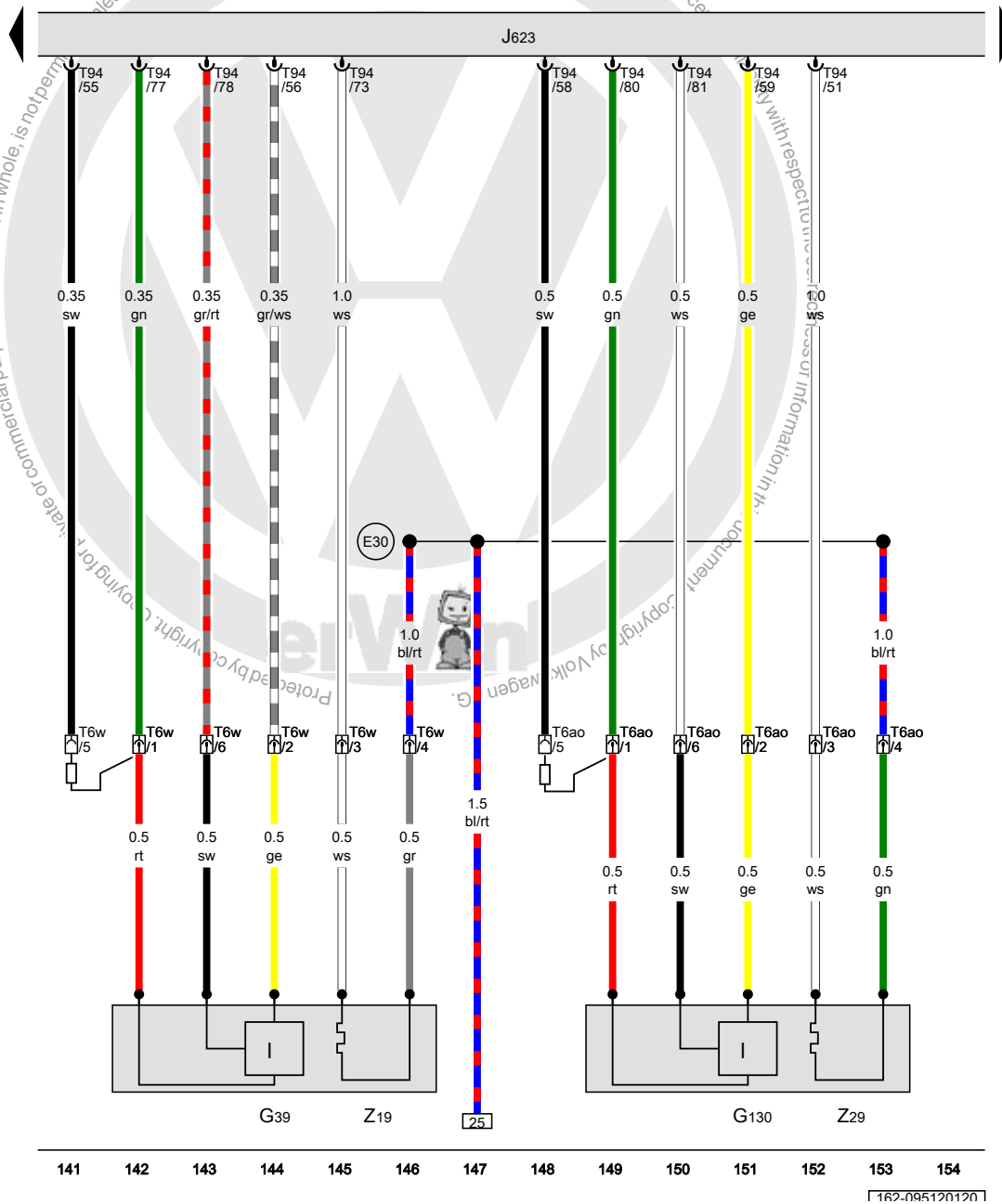


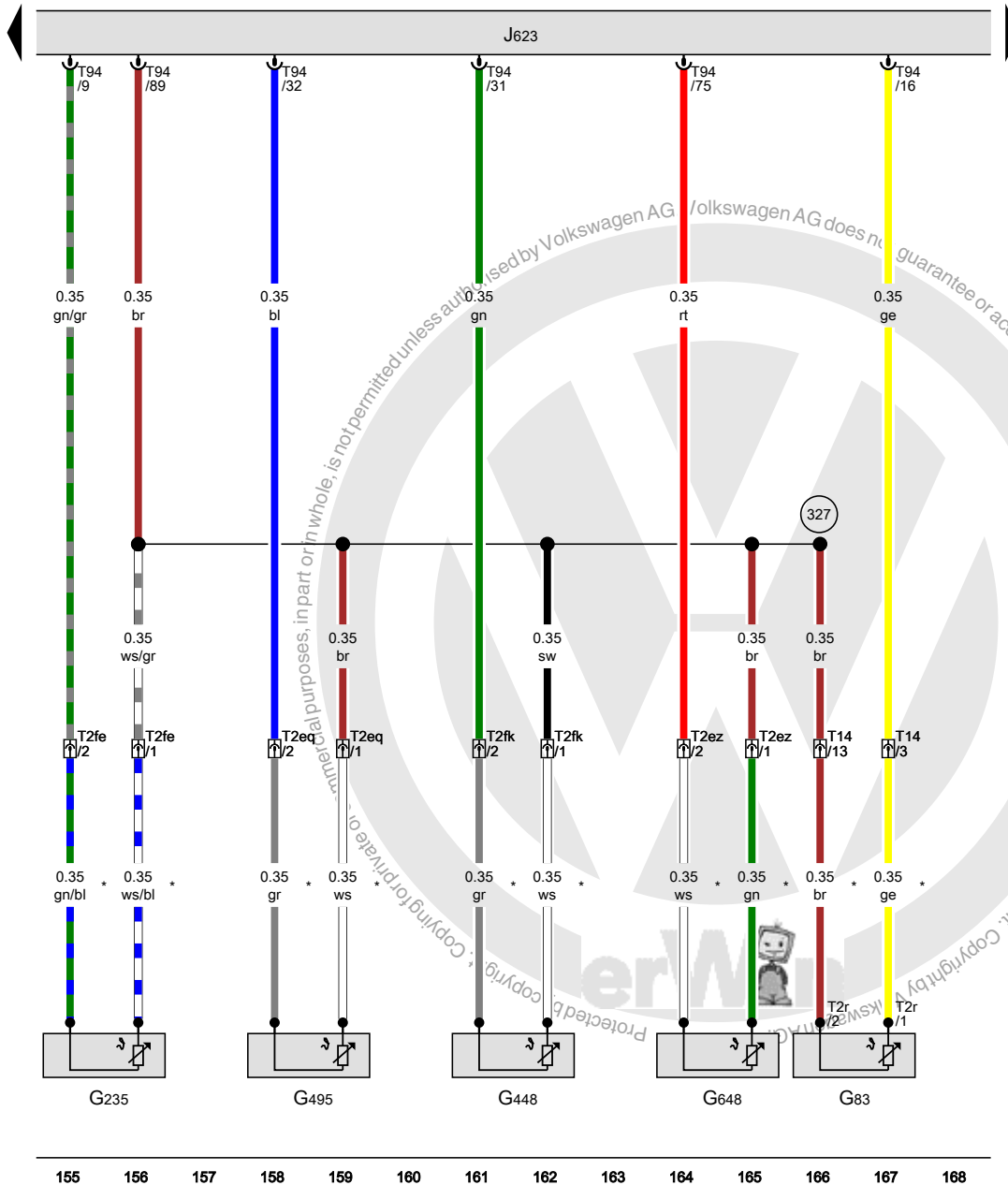
Accelerator Pedal Module, Intake Manifold Sensor, Charge Air Pressure Sensor, Intake Air Temperature Sensor, Accelerator Pedal Position Sensor, Accelerator Pedal Position Sensor 2, Engine/Motor Control Module

- GX2 Accelerator Pedal Module
- GX9 Intake Manifold Sensor
- G31 Charge Air Pressure Sensor
- G42 Intake Air Temperature Sensor
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine/Motor Control Module
- T4bt 4-Pin Connector
- T4gj 4-Pin Connector
- T4x 4-Pin Connector
- T6h 6-Pin Connector
- T94 94-Pin Connector
- 132 Ground Connection 3 (in Engine/Motor Compartment Wiring Harness)
- * Radiator Fan Connection

**Heated Oxygen Sensor, Engine/Motor Control Module,
Oxygen Sensor Heater, Heater for Oxygen Sensor 1 After
Catalytic Converter**

- G39 Heated Oxygen Sensor
- G130 Oxygen Sensor After Catalytic Converter
- J623 Engine/Motor Control Module
- T6ao 6-Pin Connector
- T6w 6-Pin Connector
- T94 94-Pin Connector
- Z19 Oxygen Sensor Heater
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- E30 Connection 87A (in Engine Wiring Harness)





Engine Coolant Temperature Sensor on Radiator Outlet, Exhaust Gas Temperature Sensor 1, Exhaust Gas Temperature Sensor 2, Exhaust Gas Temperature Sensor 3, Exhaust Gas Temperature Sensor 4, Engine/Motor Control Module

- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- G235 Exhaust Gas Temperature Sensor 1
- G448 Exhaust Gas Temperature Sensor 2
- G495 Exhaust Gas Temperature Sensor 3
- G648 Exhaust Gas Temperature Sensor 4
- J623 Engine/Motor Control Module
- T2eq 2-Pin Connector
- T2ez 2-Pin Connector
- T2fe 2-Pin Connector
- T2fk 2-Pin Connector
- T2r 2-Pin Connector
- T14 14-Pin Connector
- T94 94-Pin Connector

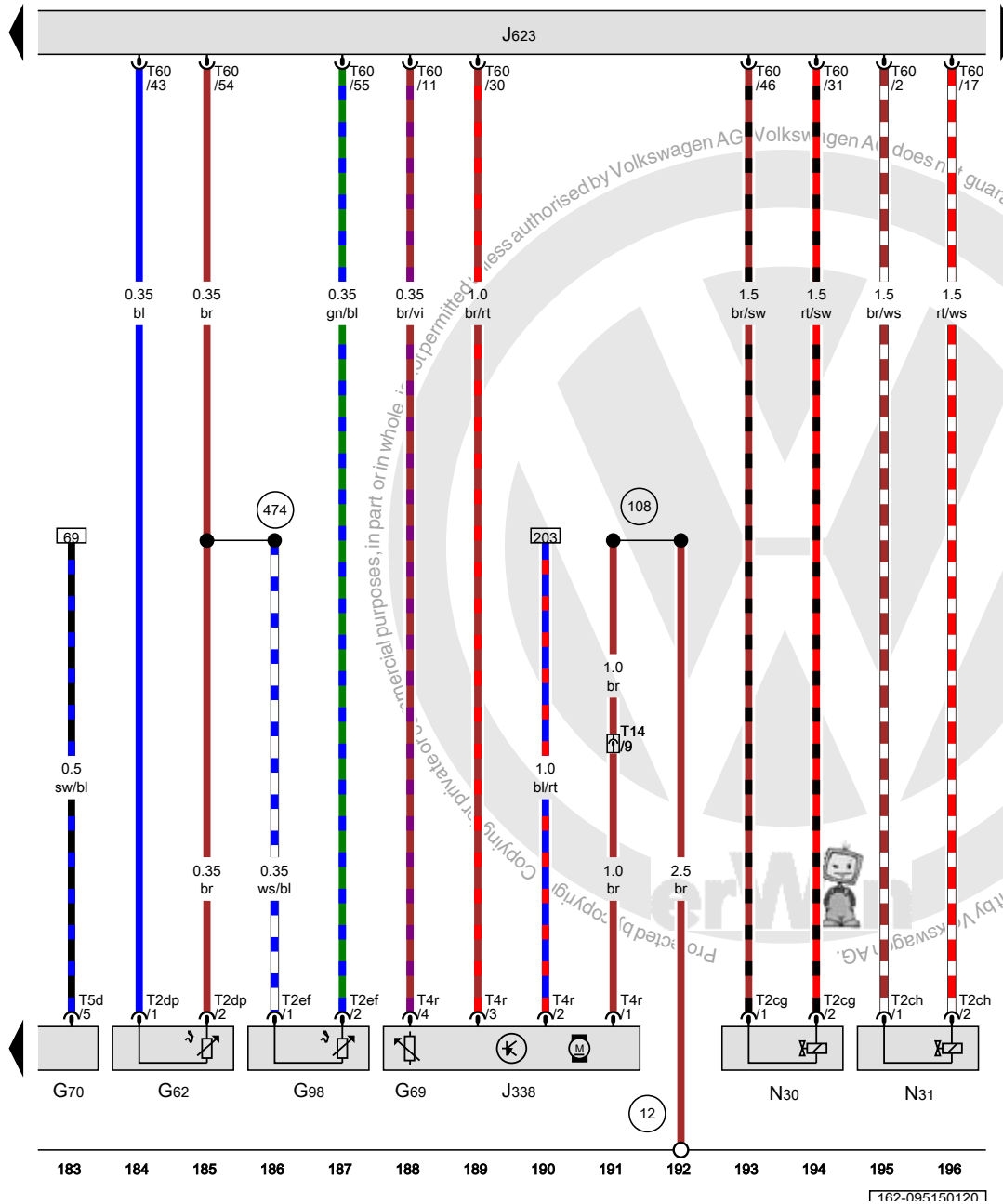
327 Sensor Ground Connection (in Engine/Motor Compartment Wiring Harness)

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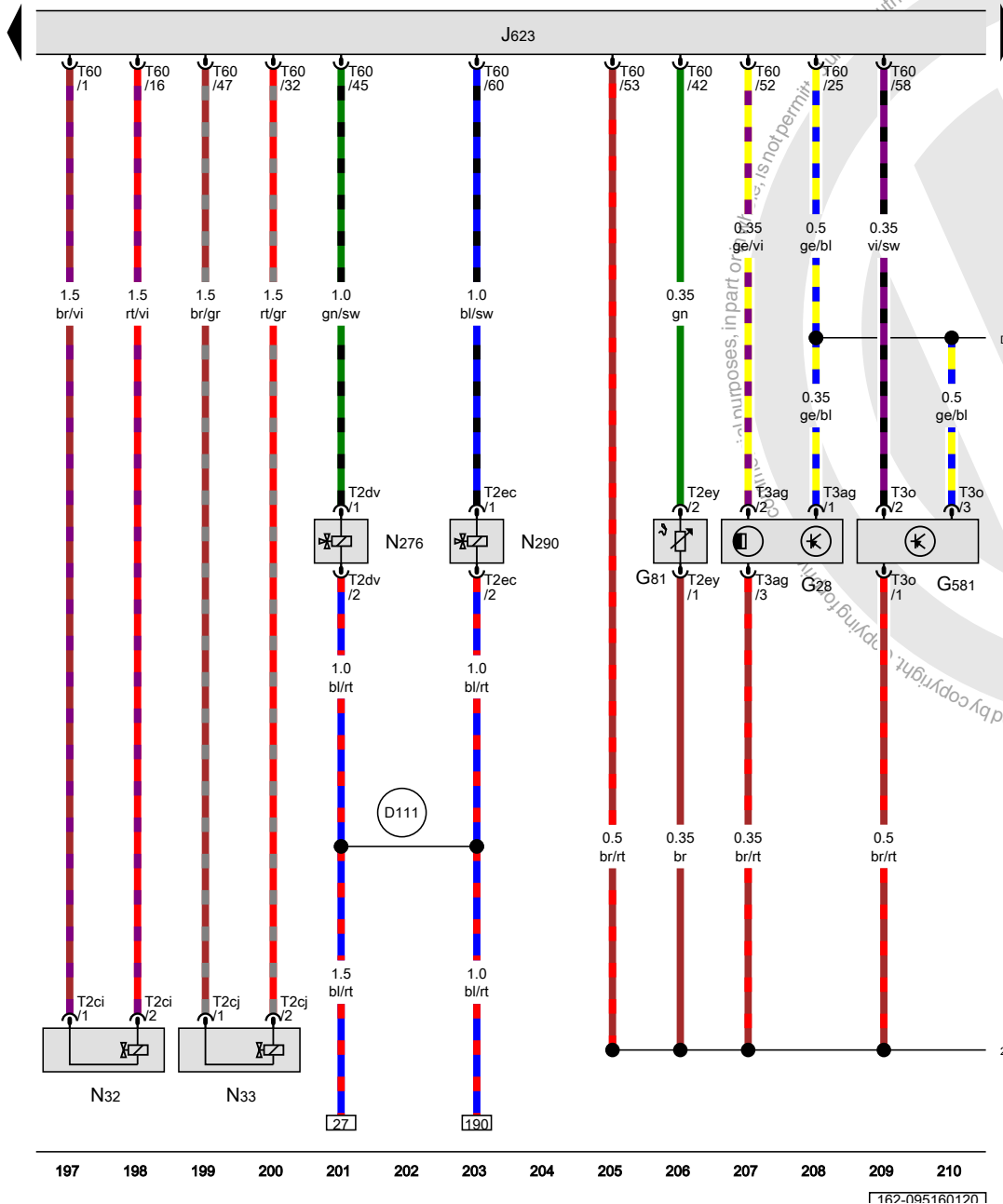


Engine Coolant Temperature Sensor, Throttle Position Sensor, Mass Airflow Sensor, EGR Temperature Sensor, Throttle Valve Control Module, Engine/Motor Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector



- G62 Engine Coolant Temperature Sensor
- G69 Throttle Position Sensor
- G70 Mass Airflow Sensor
- G98 EGR Temperature Sensor
- J338 Throttle Valve Control Module
- J623 Engine/Motor Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2dp 2-Pin Connector
- T2ef 2-Pin Connector
- T4r 4-Pin Connector
- T5d 5-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- 12 Ground Connection in Engine/Motor Compartment, Left
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 474 Sensor Ground Connection (in Engine Pre-Wiring Harness)

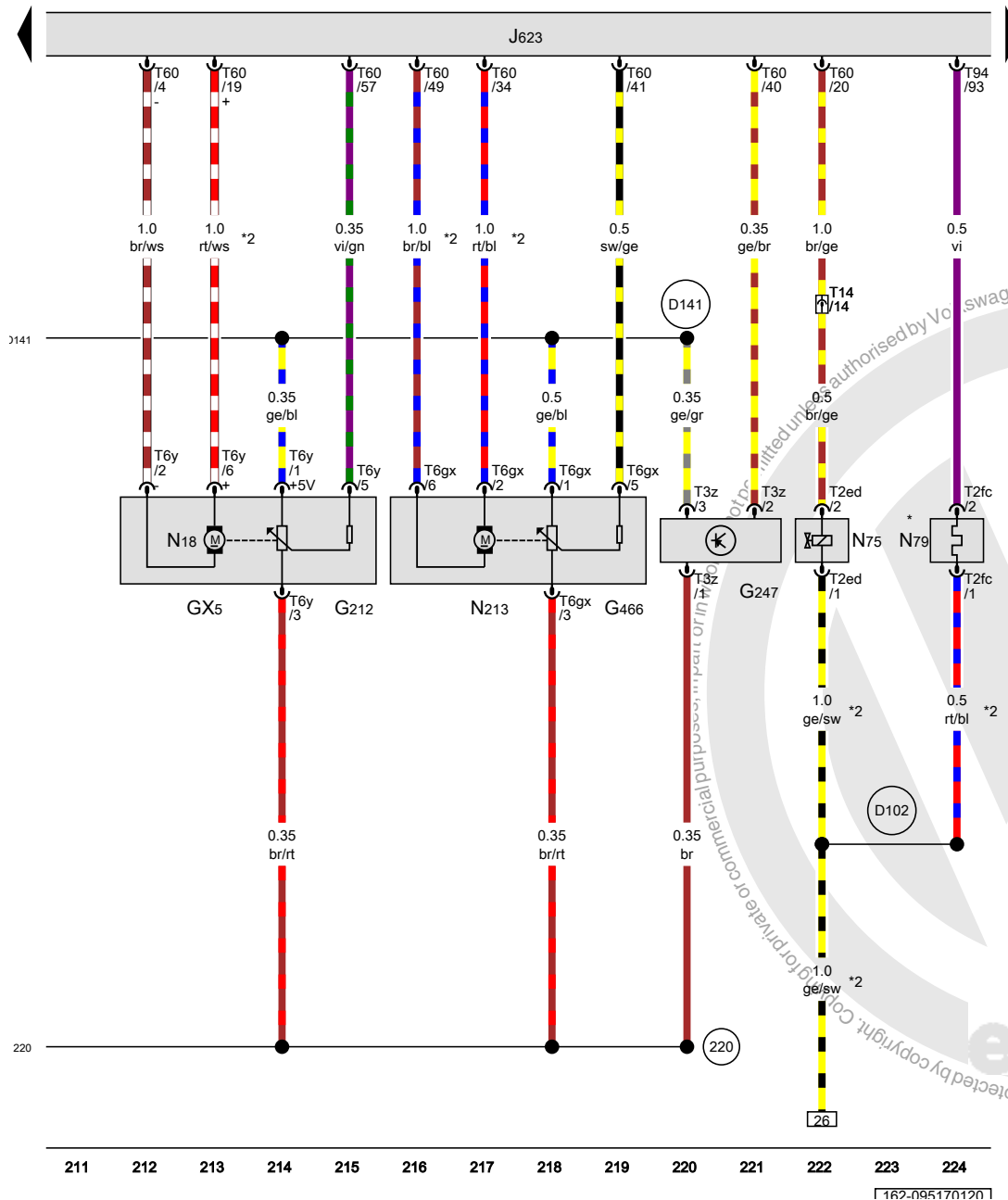
ws = white
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Engine Speed Sensor, Fuel Temperature Sensor, Charge Air Pressure Actuator Position Sensor, Engine/Motor Control Module, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, Fuel Pressure Regulator Valve, Fuel Metering Valve

- G28 Engine Speed Sensor
- G81 Fuel Temperature Sensor
- G581 Charge Air Pressure Actuator Position Sensor
- J623 Engine/Motor Control Module
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N276 Fuel Pressure Regulator Valve
- N290 Fuel Metering Valve
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2dv 2-Pin Connector
- T2ec 2-Pin Connector
- T2ey 2-Pin Connector
- T3ag 3-Pin Connector
- T3o 3-Pin Connector
- T60 60-Pin Connector

- 220 Sensor Ground Connection (in Engine Wiring Harness)
- D111 Connection 9 (in Engine/Motor Compartment Wiring Harness)
- D141 Connection 5V (in Engine Pre-Wiring Harness)

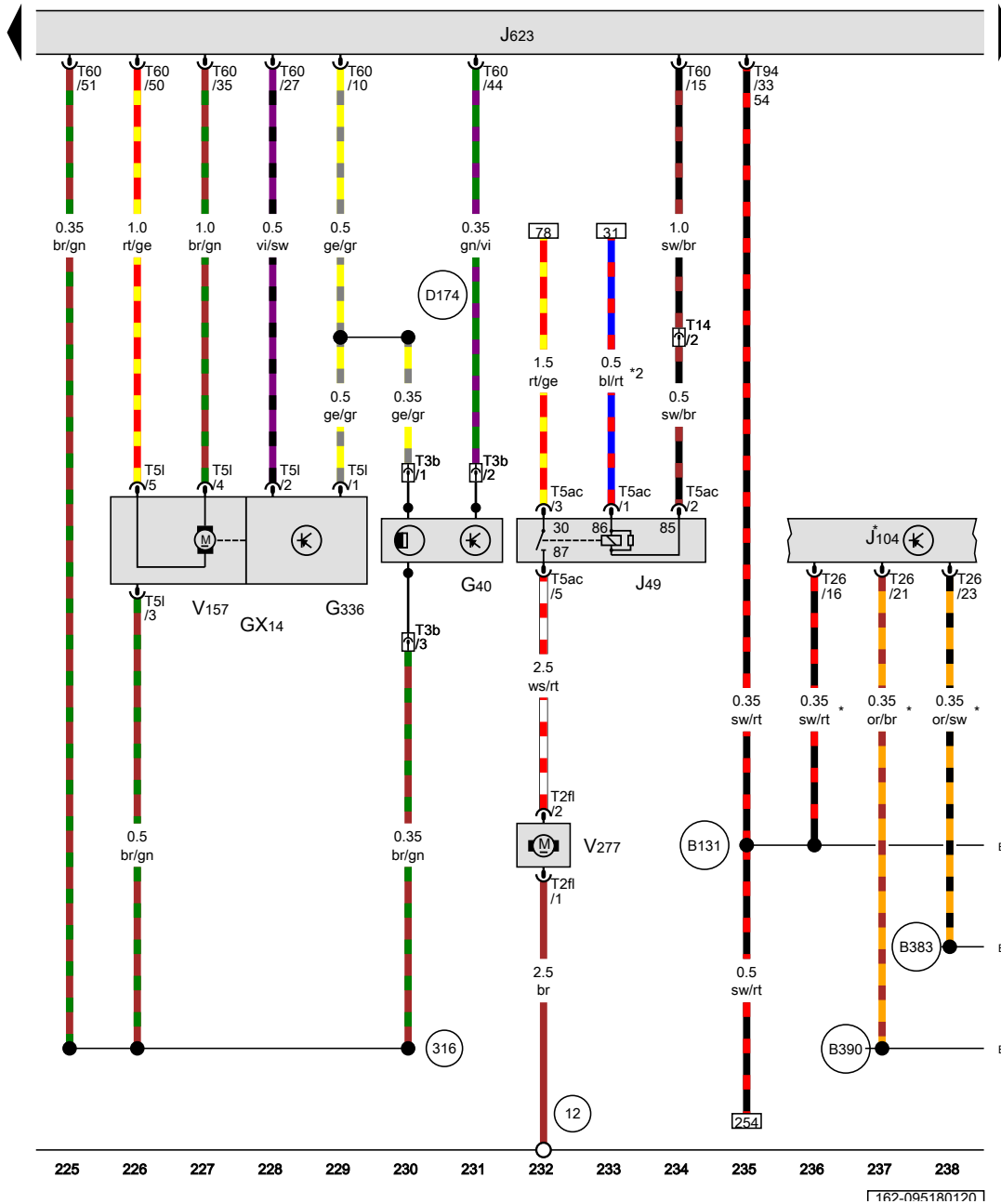


EGR Valve 1, EGR Potentiometer, Fuel Pressure Sensor, EGR Position Sensor 2, Engine/Motor Control Module, Wastegate Bypass Regulator Valve, Positive Crankcase Ventilation Heating Element, Valve 2 for EGR

- GX5 EGR Valve 1
- G212 EGR Potentiometer
- G247 Fuel Pressure Sensor
- G466 EGR Position Sensor 2
- J623 Engine/Motor Control Module
- N18 EGR Valve
- N75 Wastegate Bypass Regulator Valve
- N79 Positive Crankcase Ventilation Heating Element
- N213 Valve 2 for EGR
- T2ed 2-Pin Connector
- T2fc 2-Pin Connector
- T3z 3-Pin Connector
- T6gx 6-Pin Connector
- T6y 6-Pin Connector
- T14 14-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector
- 220 Sensor Ground Connection (in Engine Wiring Harness)
- D102 Connection 2 (in Engine/Motor Compartment Wiring Harness)
- D141 Connection 5V (in Engine Pre-Wiring Harness)
- * For Vehicles with Crankcase Ventilation Heater
- *2 The Color of the Wires Depends on Vehicle Equipment

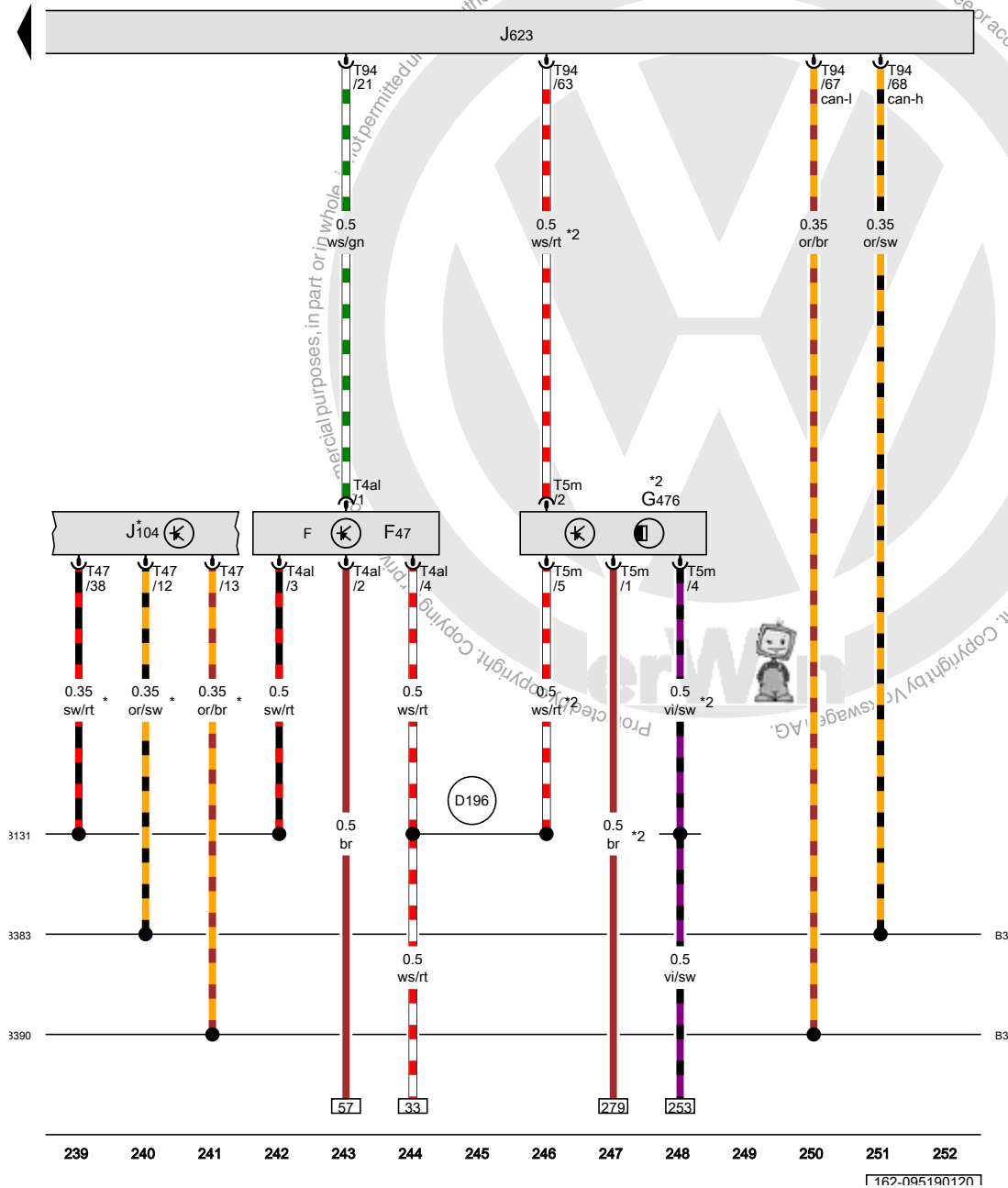
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Intake Flap Control Unit, Camshaft Position Sensor, Intake Manifold Runner Position Sensor, Fuel Pump Relay 2, ABS Control Module, Engine/Motor Control Module, Fuel Pump 2



- GX14 Intake Flap Control Unit
 - G40 Camshaft Position Sensor
 - G336 Intake Manifold Runner Position Sensor
 - J49 Fuel Pump Relay 2
 - J104 ABS Control Module
 - J623 Engine/Motor Control Module
 - T2fl 2-Pin Connector
 - T3b 3-Pin Connector
 - T5ac 5-Pin Connector
 - T5i 5-Pin Connector
 - T14 14-Pin Connector
 - T26 26-Pin Connector
 - T60 60-Pin Connector
 - T94 94-Pin Connector
 - V157 Intake Flap Motor
 - V277 Fuel Pump 2
- 12 Ground Connection in Engine/Motor Compartment, Left
 - 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
 - B131 Connection 54 (in Interior Wiring Harness)
 - B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
 - B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
 - D174 Connection 2 (5V) (in Engine Pre-Wiring Harness)
- * For Vehicles with ABS Without ESP
 *2 The Color of the Wires Depends on Vehicle Equipment

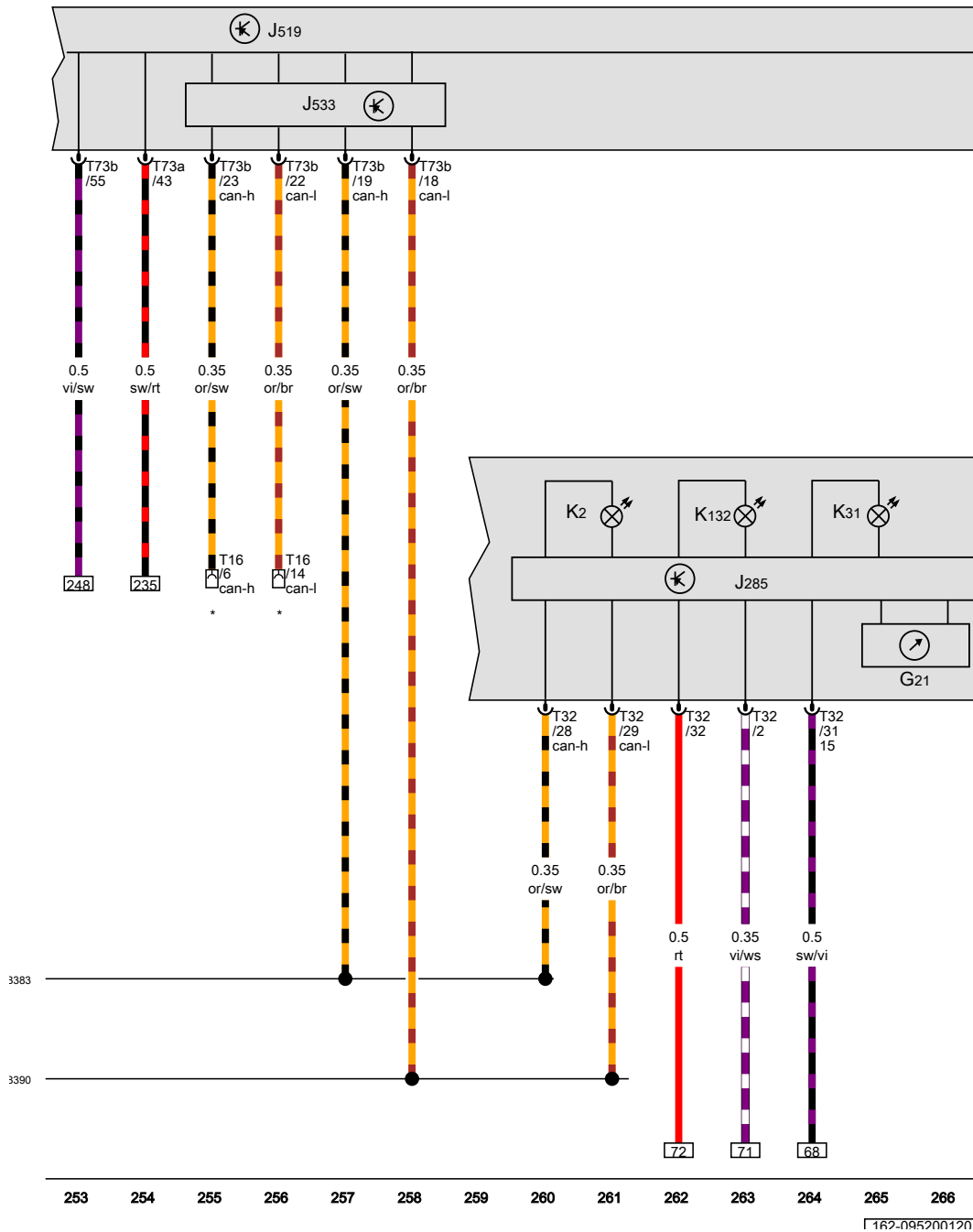
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Brake Lamp Switch, Brake Pedal Switch, Clutch Position Sensor, ABS Control Module, Engine/Motor Control Module

- F Brake Lamp Switch
- F47 Brake Pedal Switch
- G476 Clutch Position Sensor
- J104 ABS Control Module
- J623 Engine/Motor Control Module
- T4al 4-Pin Connector
- T5m 5-Pin Connector
- T47 47-Pin Connector
- T94 94-Pin Connector

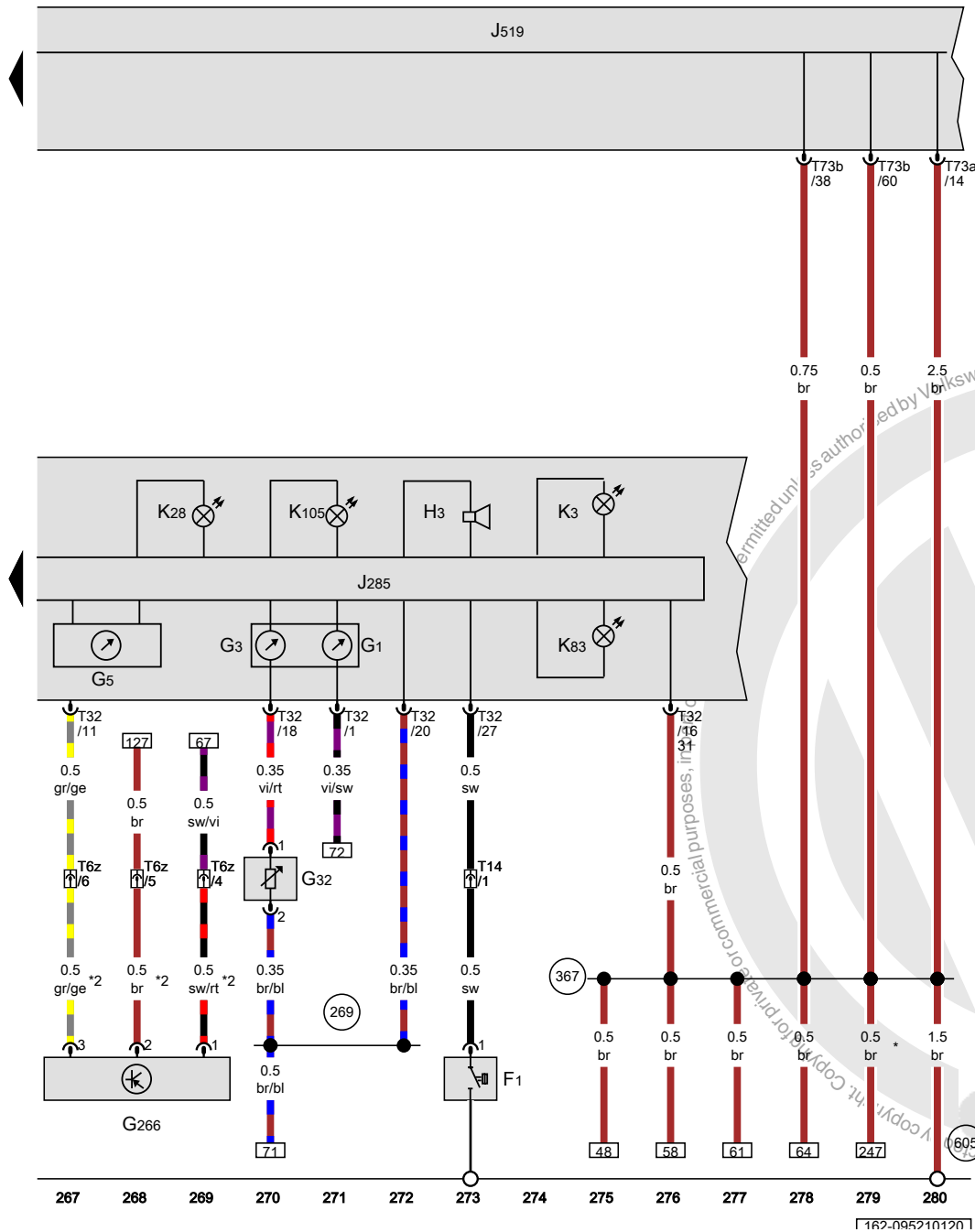
- B131 Connection 54 (in Interior Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- D196 Connection 87A (in Engine Pre-Wiring Harness) 2
- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 For Vehicles with a Manual Transmission



Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Generator Indicator Lamp, Cruise Control Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- G21 Speedometer
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- K2 Generator Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T16 16-Pin Connector
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Diagnostic Connector

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ro = red
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gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink



Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Oil Level Thermal Sensor, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Engine Coolant Level/Temperature Indicator Lamp, Low Fuel Level Indicator Lamp

- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G32 Engine Coolant Level Sensor
- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K28 Oil Pressure Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- T6z 6-Pin Connector, Near the Left Headlamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- * For Vehicles with a Manual Transmission
- *2 For Vehicles with Flexible Service Interval Display

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 sw = black
 ro = red
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 gn = green
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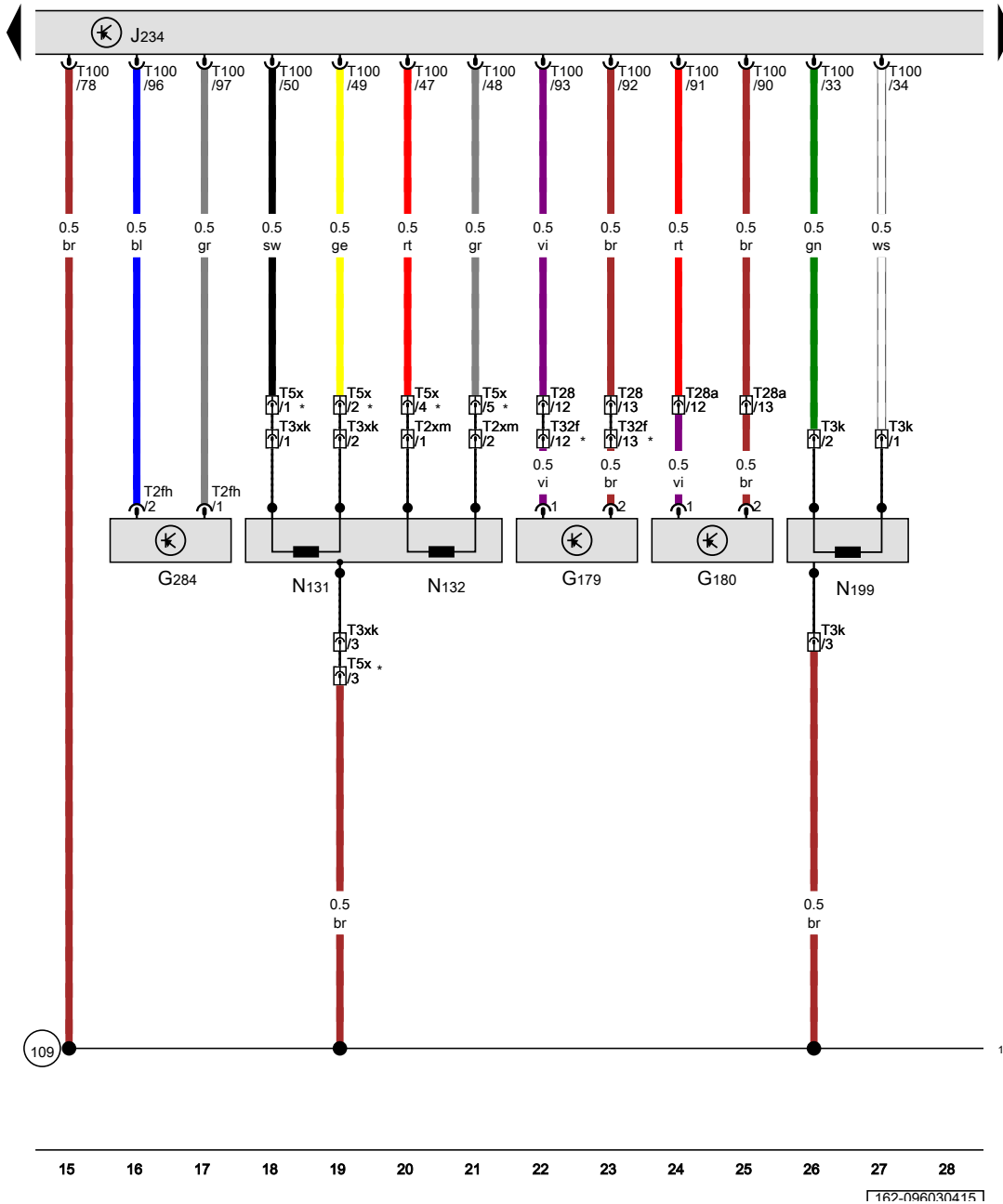
Airbag systems (USA) , CNLA,(4UM)

from June 2012



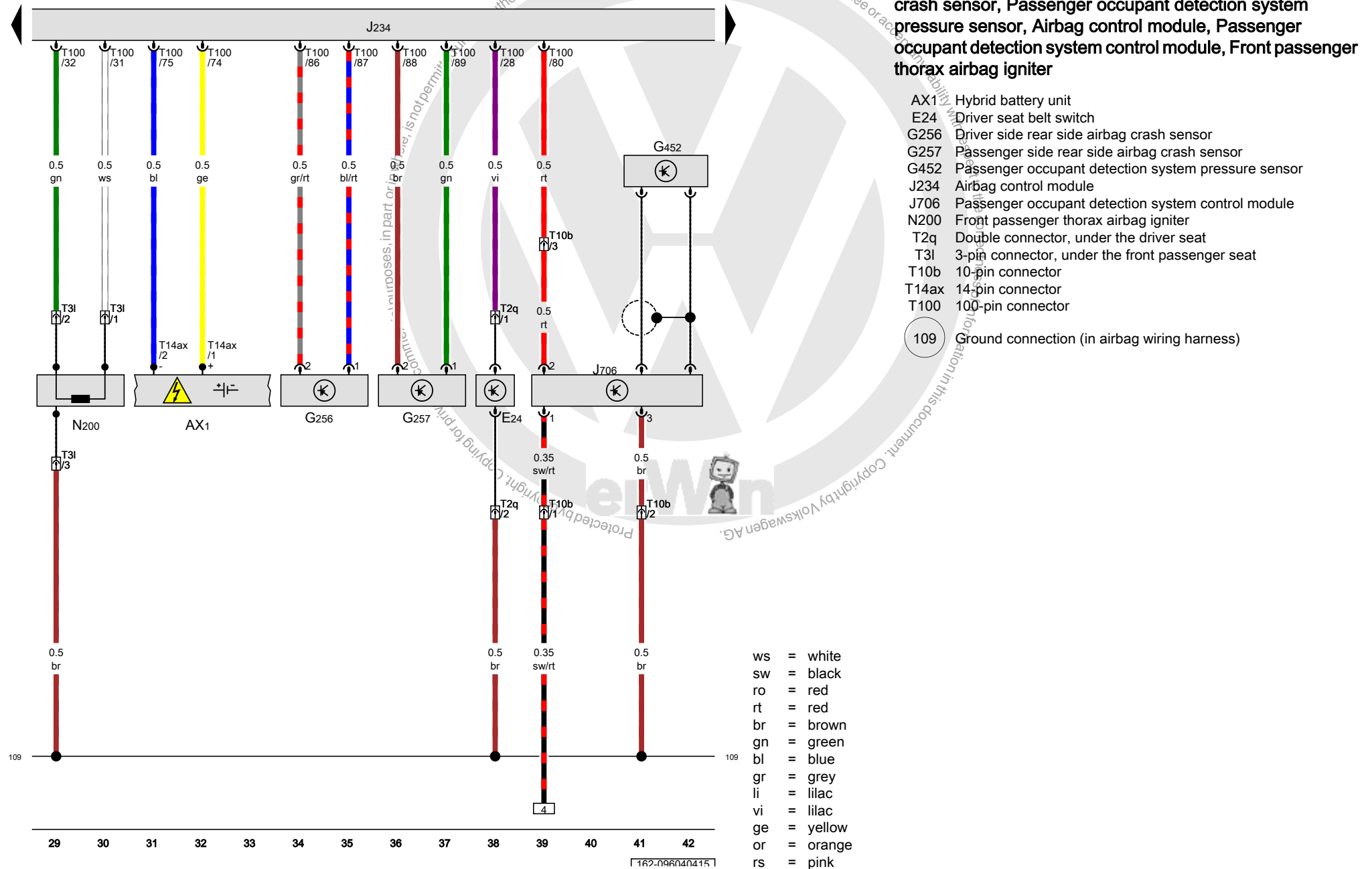


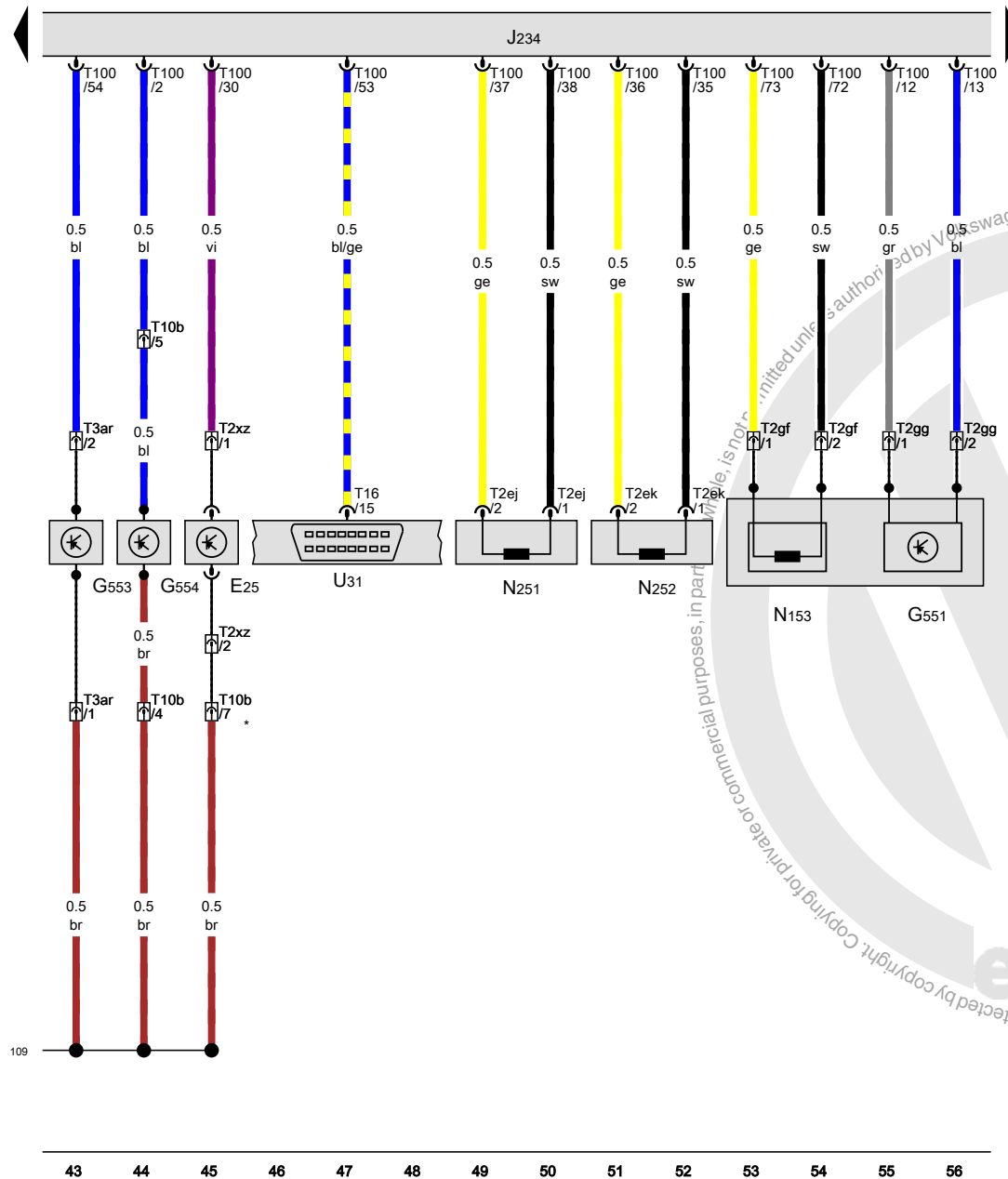
* Refer to applicable standard equipment wiring diagram



Driver side airbag crash sensor, Front passenger side airbag crash sensor, Passenger side front airbag crash sensor, Airbag control module, Front passenger airbag igniter 1, Front passenger airbag igniter 2

- G179 Driver side airbag crash sensor
- G180 Front passenger side airbag crash sensor
- G284 Passenger side front airbag crash sensor
- J234 Airbag control module
- N131 Front passenger airbag igniter 1
- N132 Front passenger airbag igniter 2
- N199 Driver thorax airbag igniter
- T2fh Double connector
- T2xm Double connector
- T3k 3-pin connector, under the driver seat
- T3xk 3-pin connector
- T5x 5-pin connector
- T28 28-pin connector
- T28a 28-pin connector
- T32f 32-pin connector
- T100 100-pin connector
- 109 Ground connection (in airbag wiring harness)
- * Depending on equipment





Front passenger seat belt switch, Driver belt force limiter, Driver seat position sensor, Front passenger seat position sensor, Airbag control module, Driver seat belt tensioner igniter 1, Driver head curtain airbag igniter, Front passenger head curtain airbag igniter

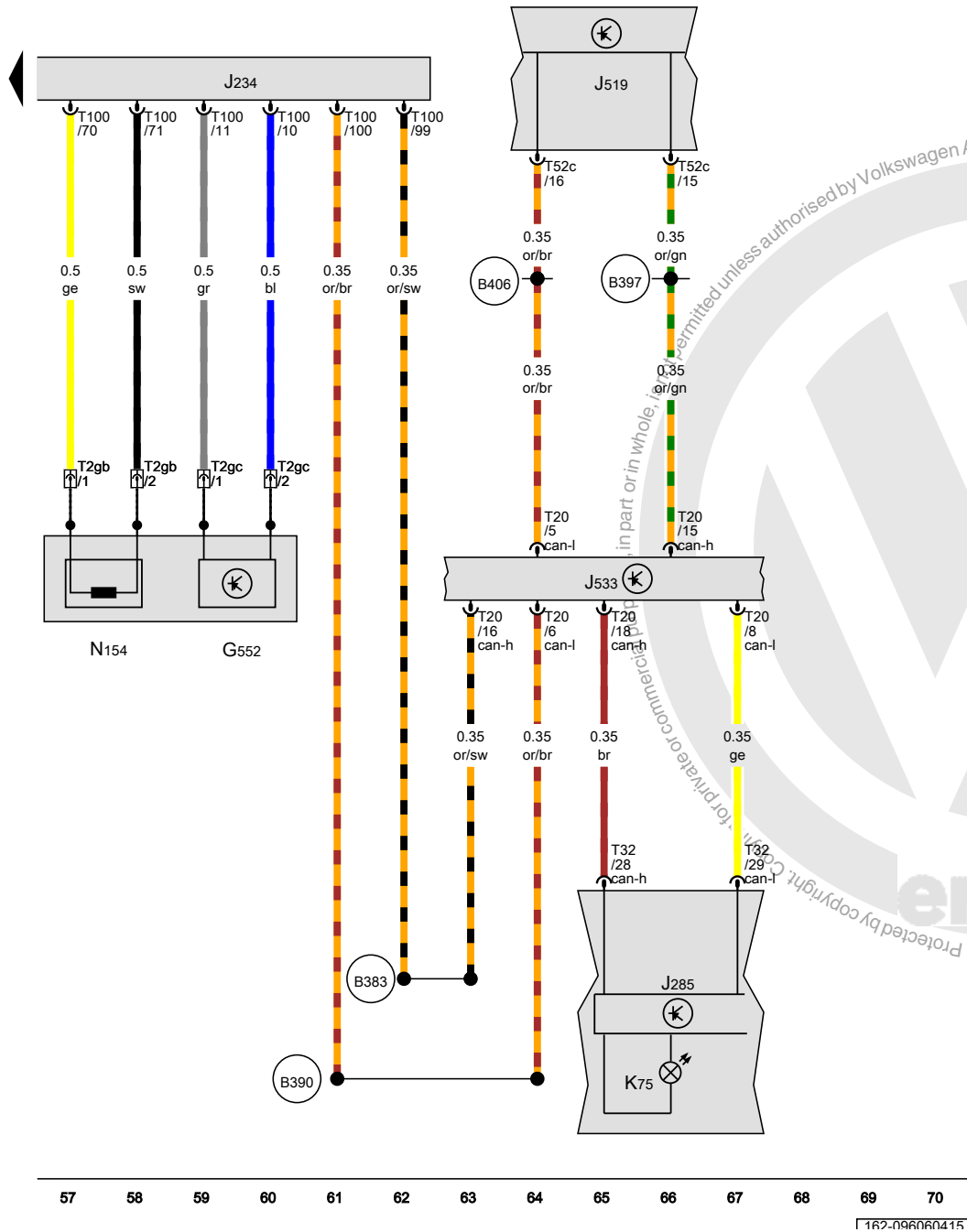
- E25 Front passenger seat belt switch
- G551 Driver belt force limiter
- G553 Driver seat position sensor
- G554 Front passenger seat position sensor
- J234 Airbag control module
- N153 Driver seat belt tensioner igniter 1
- N251 Driver head curtain airbag igniter
- N252 Front passenger head curtain airbag igniter
- T2ej Double connector
- T2ek Double connector
- T2gf Double connector
- T2gg Double connector
- T2xz Double connector, under the front passenger seat
- T3ar 3-pin connector
- T10b 10-pin connector
- T16 16-pin connector
- T100 100-pin connector
- U31 Diagnostic connection

109 Ground connection (in airbag wiring harness)

* Depending on equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-096050415



Front passenger belt force limiter, Airbag control module, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Airbag indicator lamp

- G552 Front passenger belt force limiter
- J234 Airbag control module
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- K75 Airbag indicator lamp
- N154 Front passenger seat belt tensioner igniter 1
- T2gb Double connector
- T2gc Double connector
- T20 20-pin connector
- T32 32-pin connector
- T52c 52-pin connector
- T100 100-pin connector
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

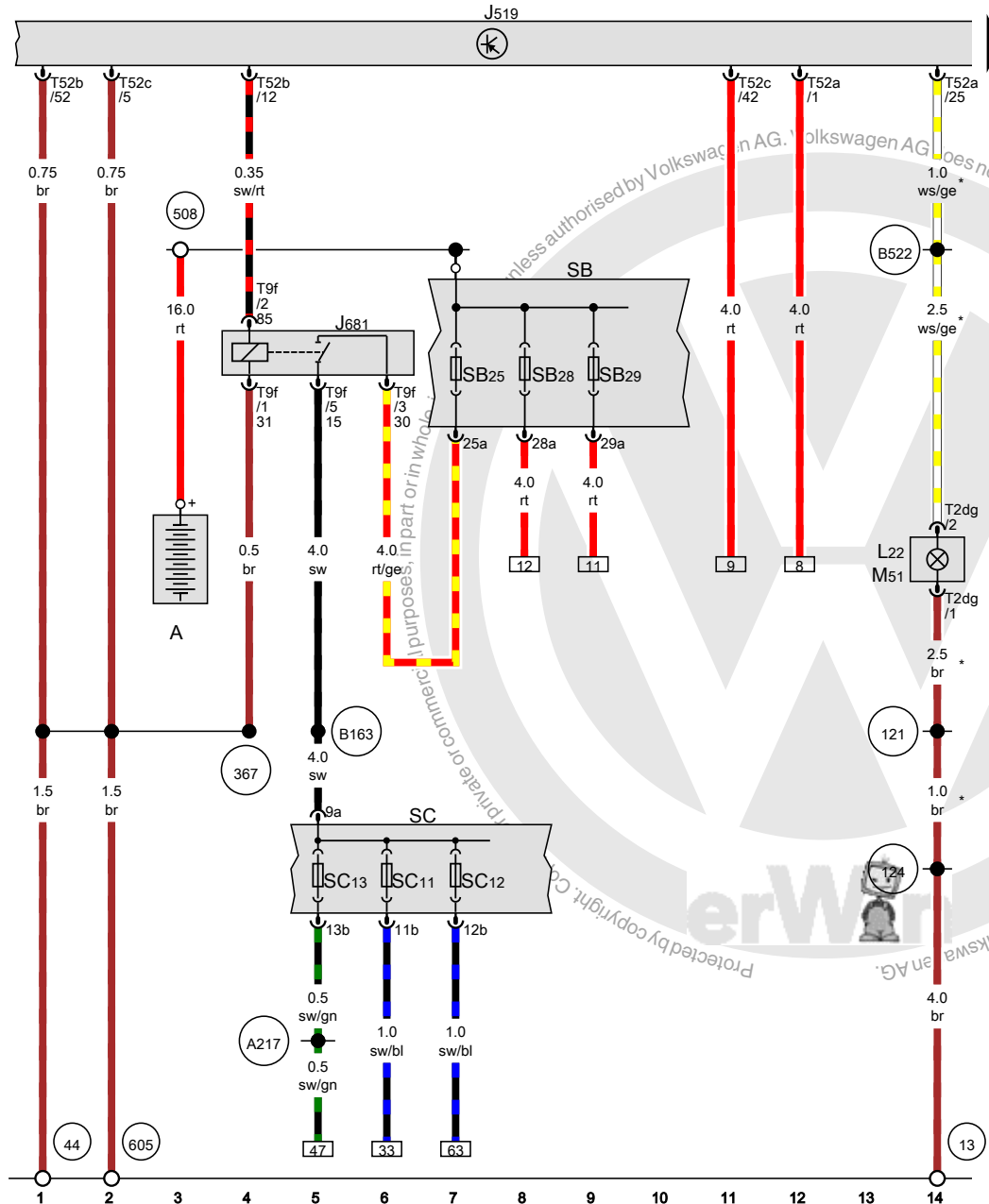
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Headlamps Bixenon HID with range control, cornering lamp, LED daytime running lamps , (8IM)

from June 2012



Vehicle electrical control module system, Terminal 15 power supply relay 2, Left front fog lamp bulb, Left stationary cornering lamp, Fuse panel B, Fuse panel C

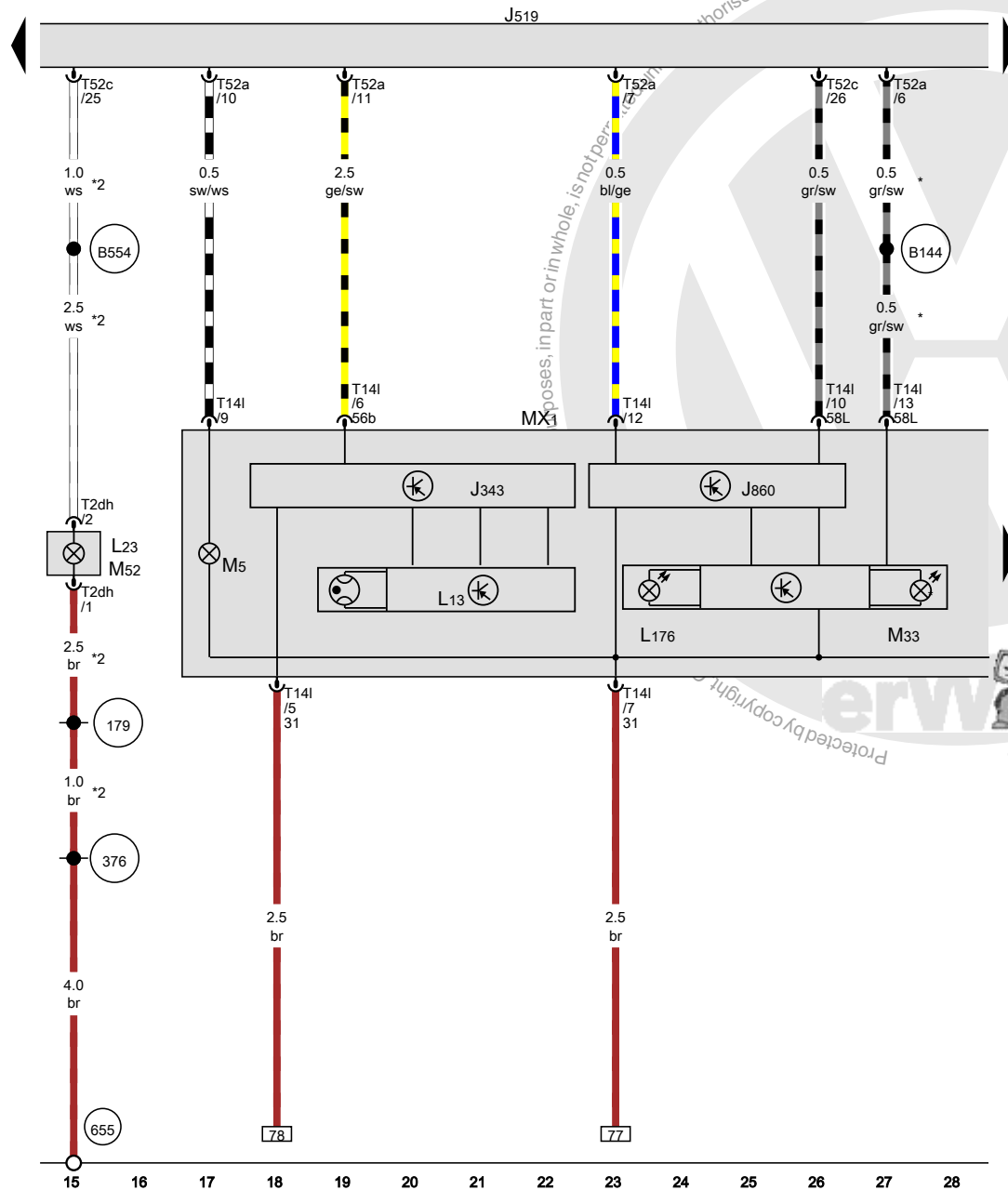


- A Battery
- J519 Vehicle electrical control module system
- J681 Terminal 15 power supply relay 2
- L22 Left front fog lamp bulb
- M51 Left stationary cornering lamp
- SB Fuse panel B
- SC11 Fuse 11 (on fuse panel C)
- SC12 Fuse 12 (on fuse panel C)
- SC13 Fuse 13 (on fuse panel C)
- SB25 Fuse 25 (on fuse panel B)
- SB28 Fuse 28 (on fuse panel B)
- SB29 Fuse 29 (on fuse panel B)
- SC Fuse panel C
- T2dg Double connector
- T9f 9-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 13 Ground connection in engine compartment, right
- 44 Ground connection on A-pillar, lower left
- 121 Ground connection 2 (in right front wiring harness)
- 124 Ground connection (in right engine compartment wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B522 Fog lamp connection (in main wiring harness)
- * Only for vehicles with fog lamps

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
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162-097020415



Left HID headlamp control module, Vehicle electrical control module system, Left HID headlamp bulb, Right front fog lamp bulb, Left daytime running lamp and position lamp LED module, Left front turn signal bulb, Right stationary cornering lamp

- J343 Left HID headlamp control module, on the left headlamp
- J519 Vehicle electrical control module system
- J860 Left daytime running lamp and position lamp control module, on the left headlamp, in the left headlamp, in the left headlamp
- L13 Left HID headlamp bulb
- L23 Right front fog lamp bulb
- L176 Left daytime running lamp and position lamp LED module
- MX1 Left front headlamp
- M5 Left front turn signal bulb
- M33 Left front side marker lamp bulb
- M52 Right stationary cornering lamp
- T2dh Double connector
- T14l 14-pin connector
- T52a 52-pin connector
- T52c 52-pin connector

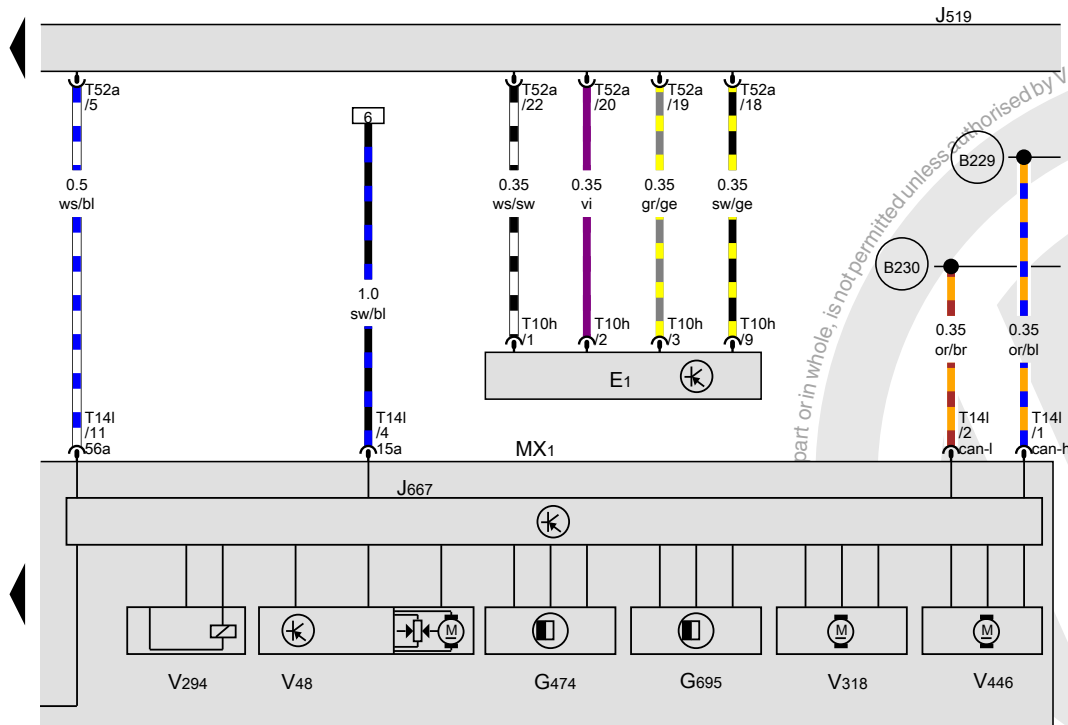
- 179 Ground connection (in left headlamp wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- B144 Positive connection (58L) (in interior wiring harness)
- B554 Fog lamp connection (in main wiring harness)

- * USA only
- *2 Only for vehicles with fog lamps

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
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 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

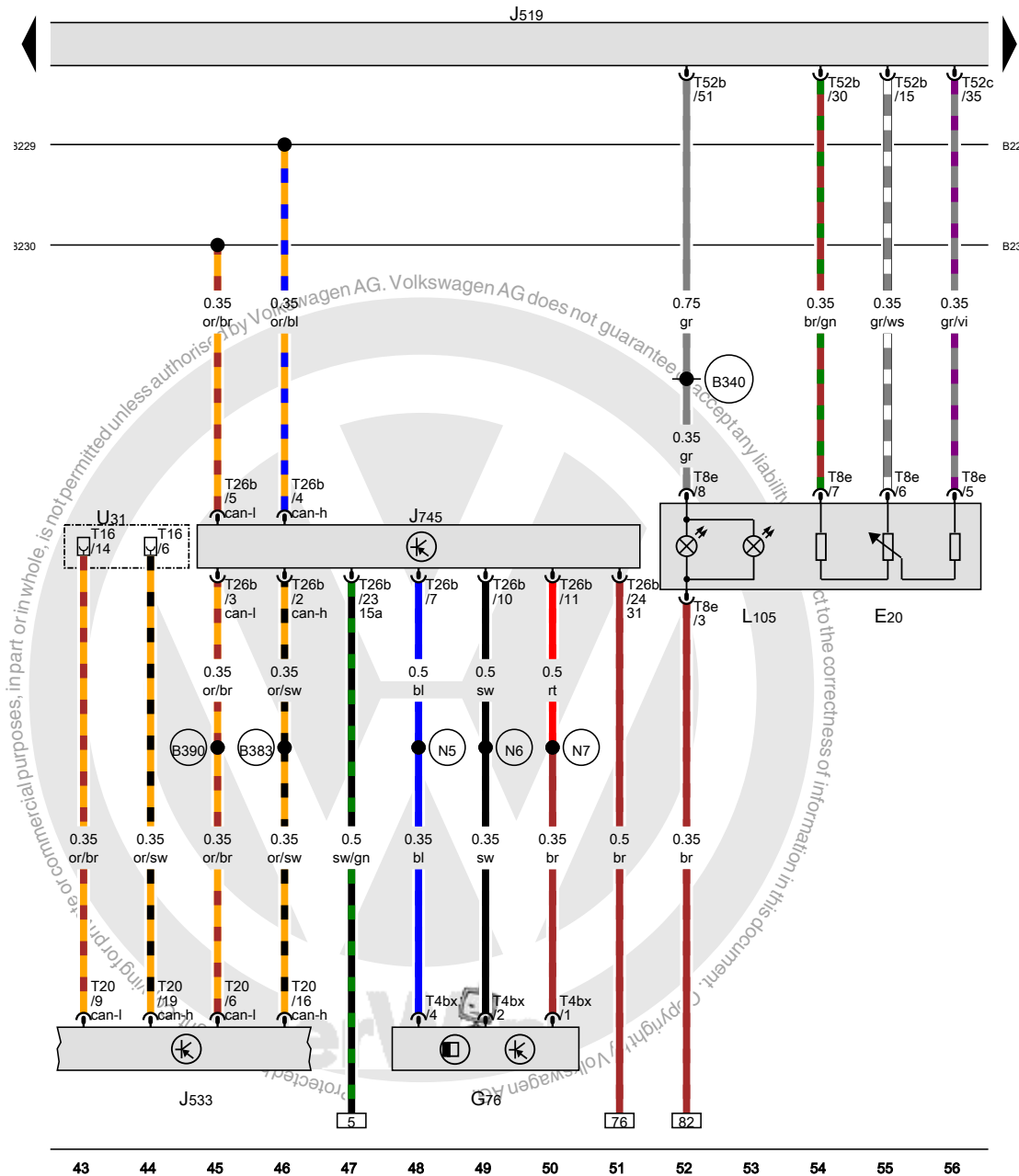
162-097030415

Vehicle electrical control module system, Left headlamp power output module, Left headlamp beam adjustment motor, Left low beam headlamp reflector motor, Left adaptive cornering lamp motor



- E1 Light switch
- G474 Left swivel module position sensor
- G695 Sensor for left variable headlamp positioning motor
- J519 Vehicle electrical control module system
- J667 Left headlamp power output module, on the left headlamp
- MX1 Left front headlamp
- T10h 10-pin connector
- T14l 14-pin connector
- T52a 52-pin connector
- V48 Left headlamp beam adjustment motor
- V294 Left low beam headlamp reflector motor
- V318 Left adaptive cornering lamp motor
- V446 Left variable headlamp positioning motor
- B229 High bus connection (in interior wiring harness)
- B230 Low bus connection (in interior wiring harness)

ws = white
 sw = black
 ro = red
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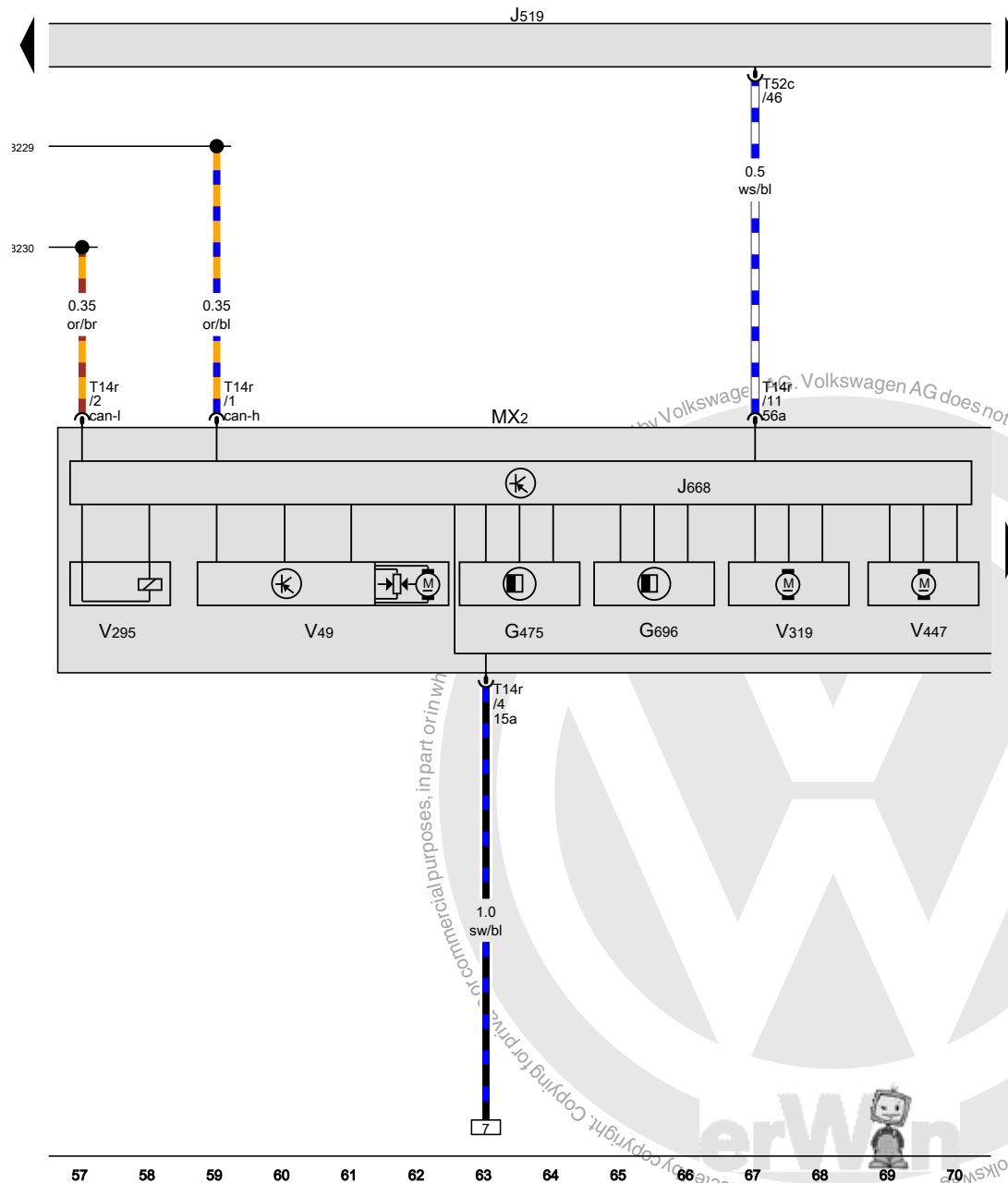


Left rear level control system sensor, Vehicle electrical control module system, Data bus on board diagnostic interface, Cornering lamp and headlamp range control module, Lighting control illumination bulb

- E20 Instrument panel and switch illumination dimmer switch
- G76 Left rear level control system sensor
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- J745 Cornering lamp and headlamp range control module, on the right glove compartment
- L105 Lighting control illumination bulb
- T4bx 4-pin connector
- T8e 8-pin connector
- T16 16-pin connector
- T20 20-pin connector
- T26b 26-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection

- (B229) High bus connection (in interior wiring harness)
- (B230) Low bus connection (in interior wiring harness)
- (B340) Connection 58d (in main wiring harness) 1
- (B383) Powertrain CAN bus high connection 1 (in main wiring harness)
- (B390) Powertrain CAN bus low connection 1 (in main wiring harness)
- (N5) Connection 4 (in headlamp range control wiring harness)
- (N6) Connection 5 (in headlamp range control wiring harness)
- (N7) Connection 6 (in headlamp range control wiring harness)

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



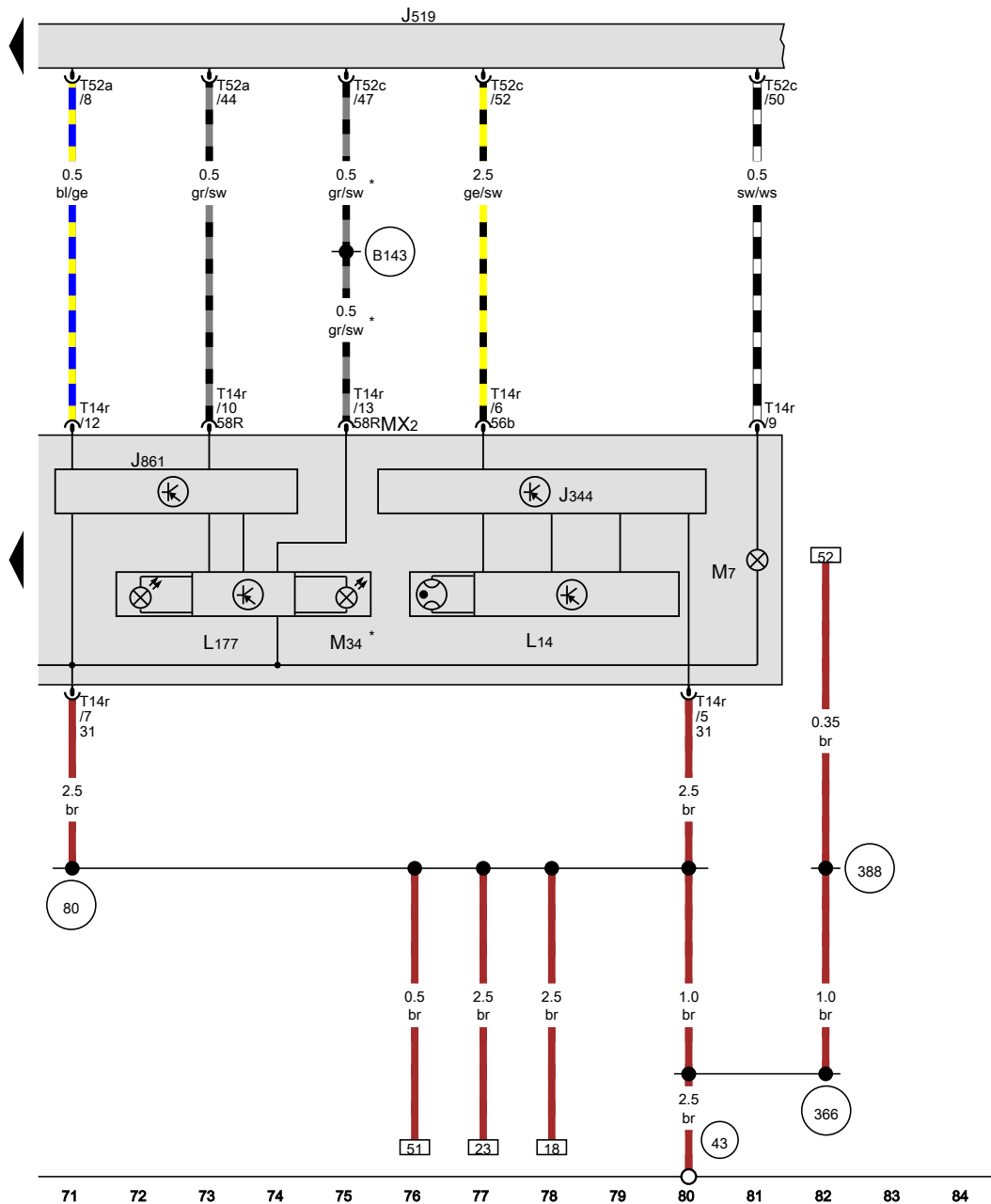
Vehicle electrical control module system, Right headlamp power output module, Right headlamp beam adjustment motor, Right low beam headlamp reflector motor, Right adaptive cornering lamp motor

- G475 Right swivel module position sensor
- G696 Sensor for right variable headlamp positioning motor
- J519 Vehicle electrical control module system
- J668 Right headlamp power output module, on the left headlamp, on the right headlamp
- MX2 Right front headlamp
- T14r 14-pin connector
- T52c 52-pin connector
- V49 Right headlamp beam adjustment motor
- V295 Right low beam headlamp reflector motor
- V319 Right adaptive cornering lamp motor
- V447 Right variable headlamp positioning motor

(B229) High bus connection (in interior wiring harness)

(B230) Low bus connection (in interior wiring harness)

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Right HID headlamp control module, Vehicle electrical control module system, Right HID headlamp bulb, Right daytime running lamp and position lamp LED module, Right front turn signal bulb

- J344 Right HID headlamp control module, on the left headlamp, on the right headlamp
- J519 Vehicle electrical control module system
- J861 Right daytime running lamp and position lamp control module, on the left headlamp, in the left headlamp, in the left headlamp, in the right headlamp
- L14 Right HID headlamp bulb
- L177 Right daytime running lamp and position lamp LED module
- MX2 Right front headlamp
- M7 Right front turn signal bulb
- M34 Right front side marker lamp bulb
- T14r 14-pin connector
- T52a 52-pin connector
- T52c 52-pin connector
- 43 Ground connection on A-pillar, lower right
- 80 Ground connection 1 (in instrument cluster wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- B143 Positive connection (58R) (in interior wiring harness)
- * USA only

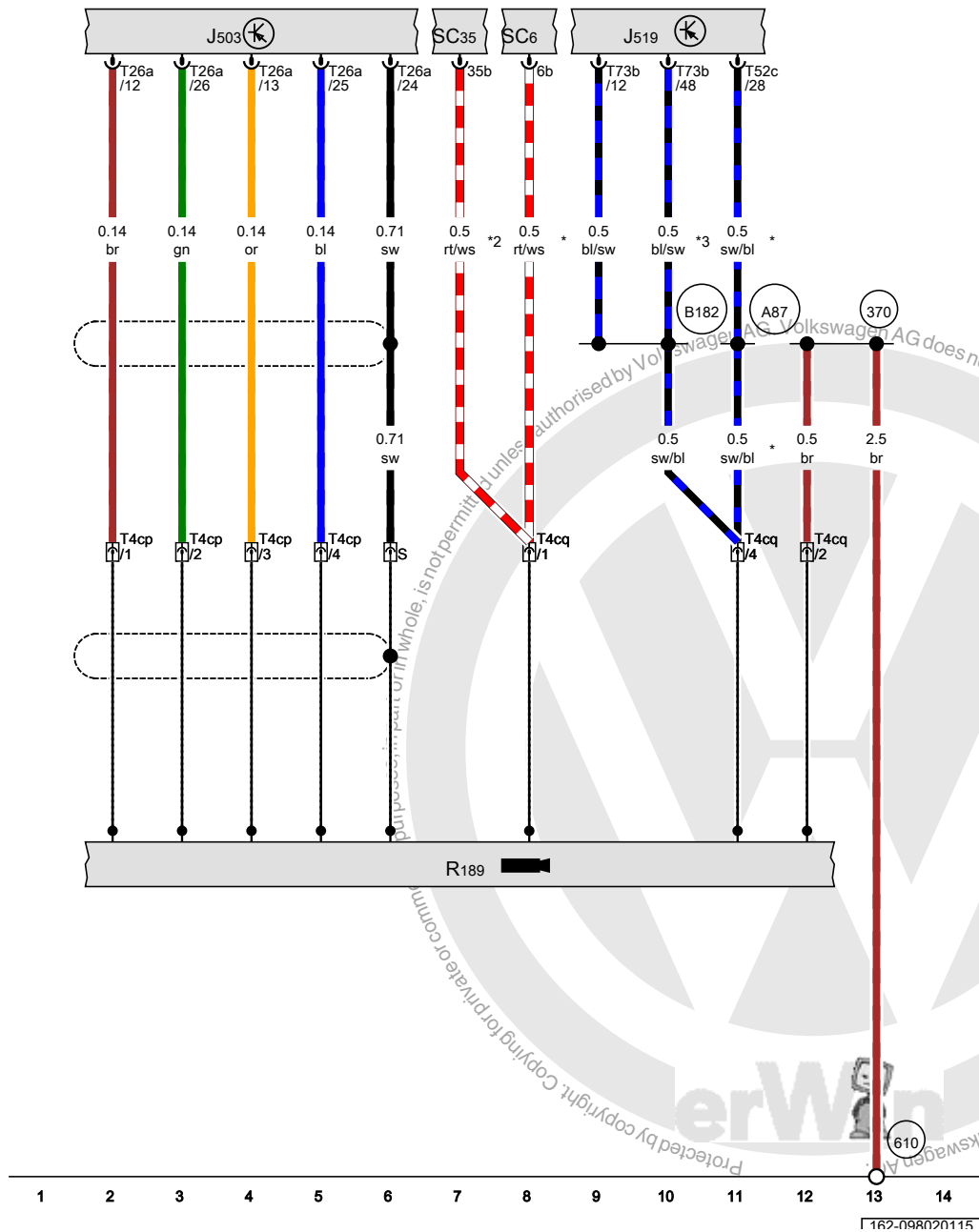
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gn = green
bl = blue
gr = grey
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Rearview camera (Rear Assist) , (KA1)

from June 2012



Radio/navigation display unit control module, Rearview camera



- J503 Radio/navigation display unit control module
- J519 Vehicle electrical control module system
- R189 Rearview camera
- SC6 Fuse 6 (on fuse panel C)
- SC35 Fuse 35 (on fuse panel C)
- T4 4-pin connector
- T4cp 4-pin connector
- T4cq 4-pin connector
- T26a 26-pin connector
- T52c 52-pin connector
- T73b 73-pin connector

- 370 Ground connection 5 (in main wiring harness)
- 610 Audio ground connection under front center console
- A87 Back-up lamp connection (in instrument panel wiring harness)
- B182 Connection RF (in interior wiring harness)

- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)
- *3 Only for vehicles with a manual transmission

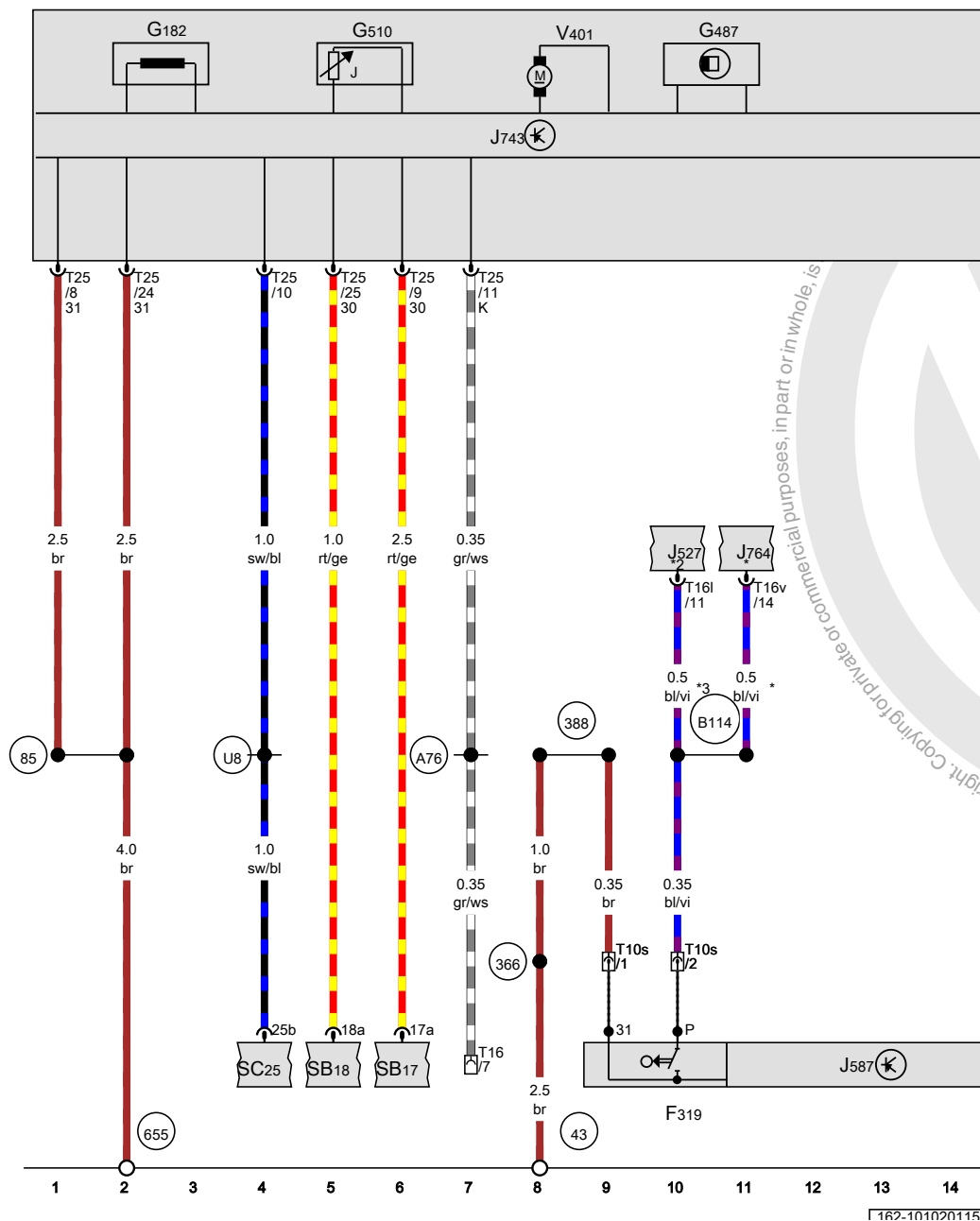
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Automatic transmission - DSG 0AM , (0K1)

from June 2012



Selector lever sensor system control module, DSG transmission Mechatronic

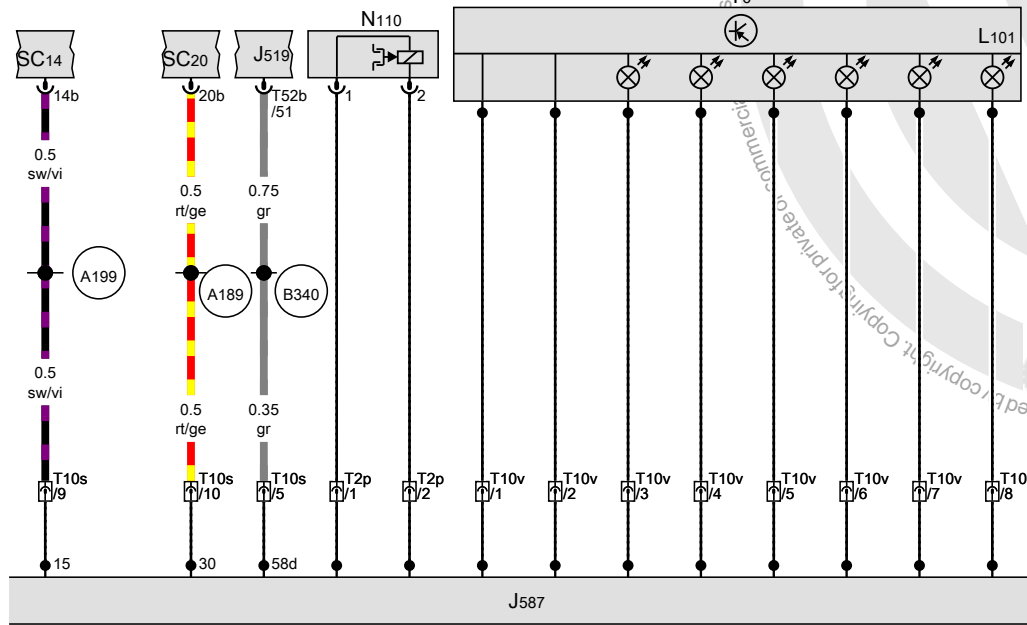
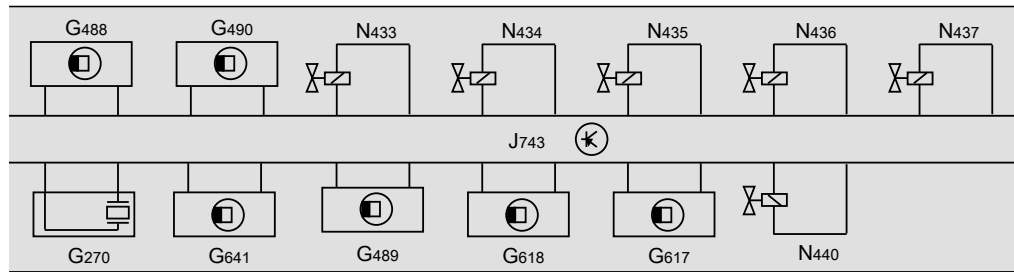


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- F319 Selector lever park position lock switch
- G182 Transmission input speed sensor
- G487 Gear position distance sensor 1
- G510 Temperature sensor in control module
- J527 Steering column electronics control module
- J587 Selector lever sensor system control module
- J743 DSG transmission Mechatronic
- J764 Electronic steering column lock control module
- SB17 Fuse 17 (on fuse panel B)
- SB18 Fuse 18 (on fuse panel B)
- SC25 Fuse 25 (on fuse panel C)
- T10s 10-pin connector, under the selector lever
- T16 16-pin connector, on the diagnostic connector
- T16l 16-pin connector
- T16v 16-pin connector
- T25 25-pin connector
- V401 Hydraulic pump motor
- 43 Ground connection on A-pillar, lower right
- 85 Ground connection 1 (in engine compartment wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 655 Ground connection on left headlamp
- A76 KS-diagnostic lead connection (in instrument panel wiring harness)
- B114 Lock switch connection (in interior wiring harness)
- U8 Positive connection (15a) (in automatic transmission wiring harness)
- * only for vehicles with access/start authorization system
- *2 Depending on equipment
- *3 Only for vehicles without access/start authorization system

162-101020115

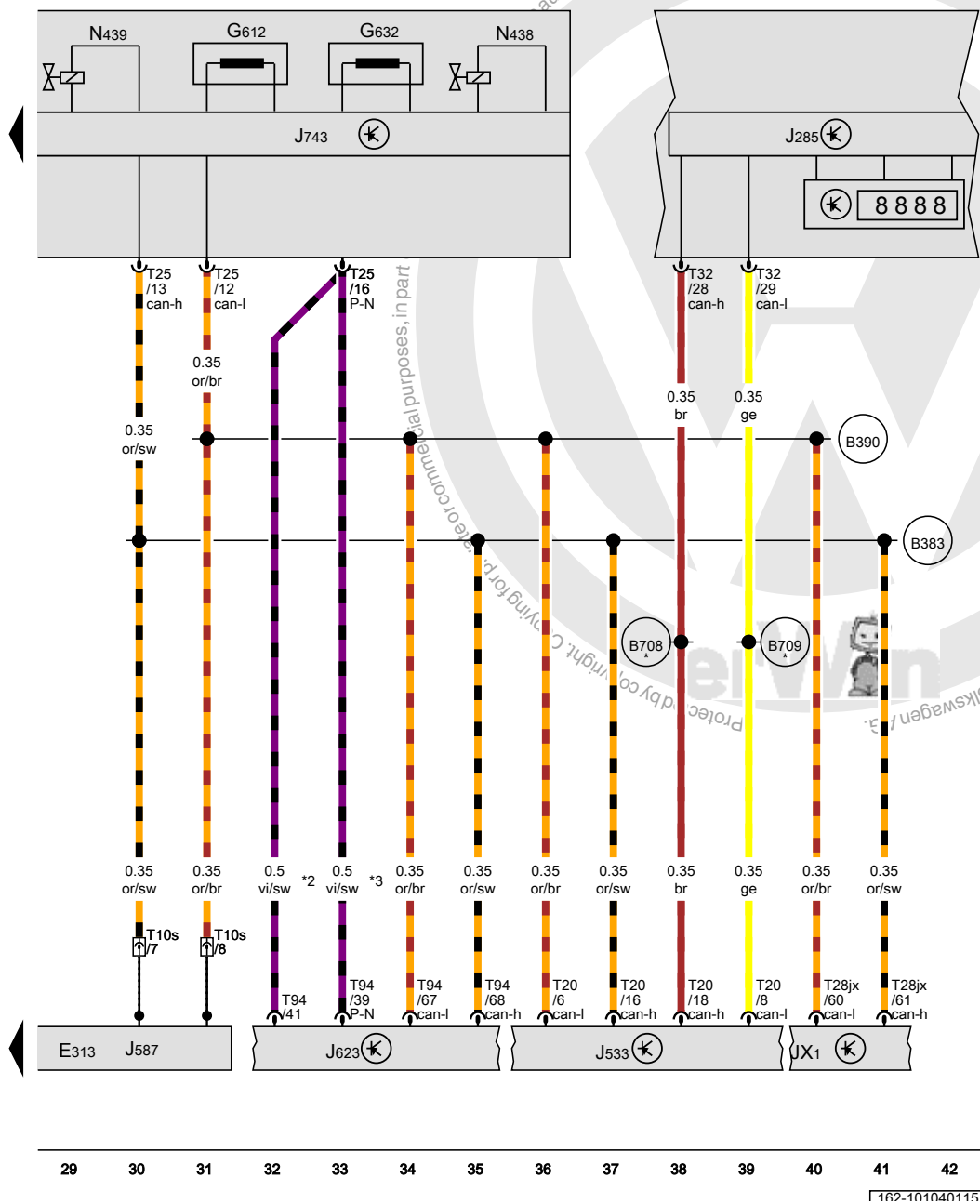
**Selector lever sensor system control module, DSG
transmission Mechatronic, Selector lever scale illumination
bulb, Transmission range display**



- G270 Hydraulic pressure sensor
- G488 Gear position distance sensor 2
- G489 Gear position distance sensor 3
- G490 Gear position distance sensor 4
- G617 Clutch pedal position sensor 1
- G618 Clutch pedal position sensor 2
- G641 Transmission input speed sensor 3
- J519 Vehicle electrical control module system
- J587 Selector lever sensor system control module
- J743 DSG transmission Mechatronic
- L101 Selector lever scale illumination bulb
- N110 Shift lock solenoid
- N433 Sub-transmission 1 valve 1
- N434 Sub-transmission 1 valve 2
- N435 Sub-transmission 1 valve 3
- N436 Sub-transmission 1 valve 4
- N437 Sub-transmission 2 valve 1
- N440 Sub-transmission 2 valve 4
- SC14 Fuse 14 (on fuse panel C)
- SC20 Fuse 20 (on fuse panel C)
- T2p Double connector
- T10s 10-pin connector, under the selector lever
- T10v 10-pin connector
- T52b 52-pin connector
- Y6 Transmission range display

- A189 Positive connection 5 (30a) (in instrument panel wiring harness)
- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- B340 Connection 58d (in main wiring harness) 1

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- gr = grey
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- ge = yellow
- or = orange
- rs = pink



Electric drive power and control electronics, Instrument cluster control module, Data bus on board diagnostic interface, Selector lever sensor system control module, Engine control module, DSG transmission Mechatronic

- E313 Selector lever
- G612 Transmission input speed sensor 2
- G632 Transmission input speed sensor 1
- JX1 Electric drive power and control electronics
- J285 Instrument cluster control module
- J533 Data bus on board diagnostic interface
- J587 Selector lever sensor system control module
- J623 Engine control module
- J743 DSG transmission Mechatronic
- N438 Sub-transmission 2 valve 2
- N439 Sub-transmission 2 valve 3
- T10s 10-pin connector, under the selector lever
- T20 20-pin connector
- T25 25-pin connector
- T28jx 28-pin connector
- T32 32-pin connector
- T94 94-pin connector

- (B383) Powertrain CAN bus high connection 1 (in main wiring harness)
- (B390) Powertrain CAN bus low connection 1 (in main wiring harness)
- (B708) Instrument cluster CAN bus high connection 1 (in main wiring harness)
- (B709) Instrument cluster CAN bus low connection 1 (in main wiring harness)

- * from June 2013
- *2 Only with emissions standard Euro 6
- *3 USA only

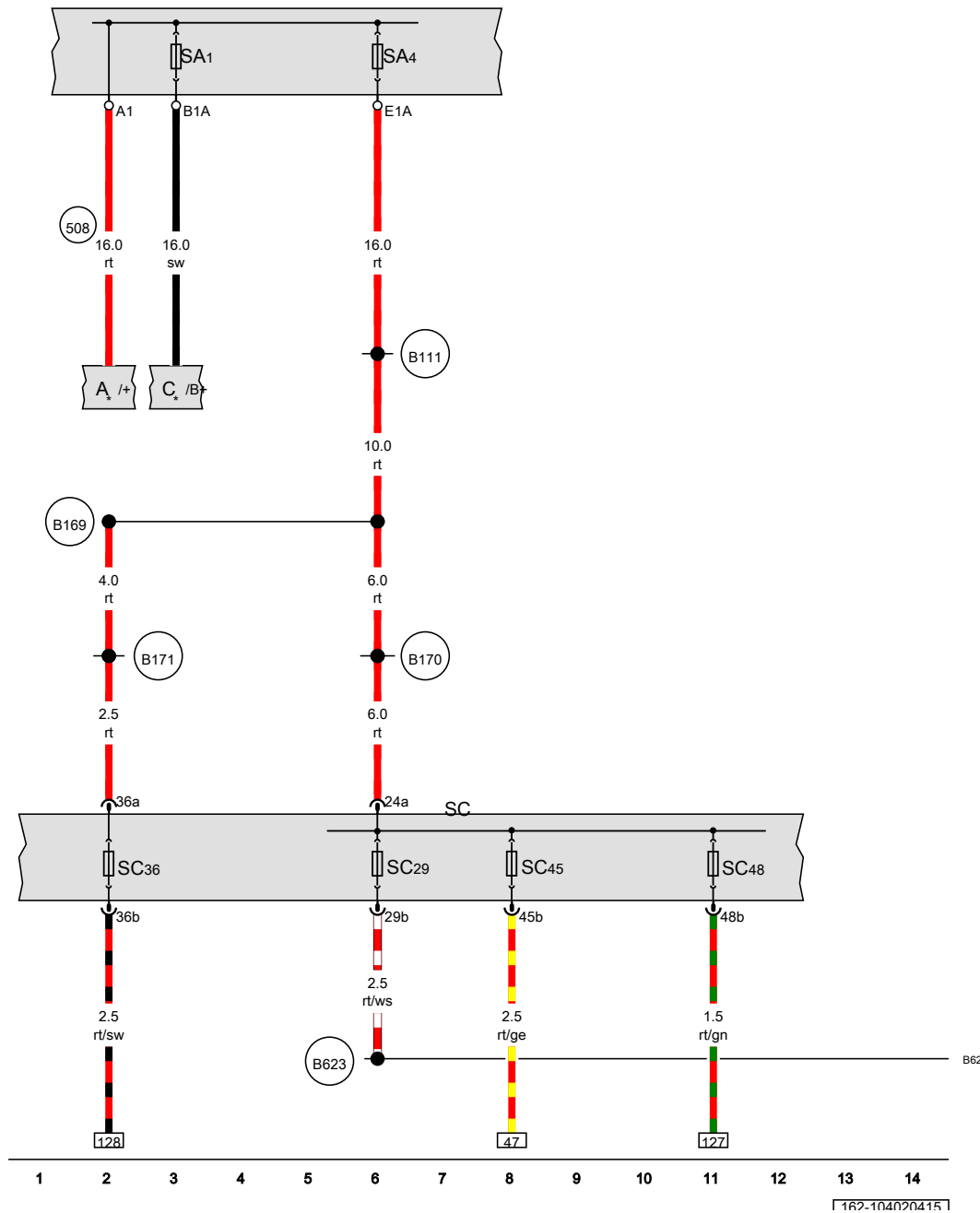
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Convenience system with manual rear windows , (4R8)

from June 2012



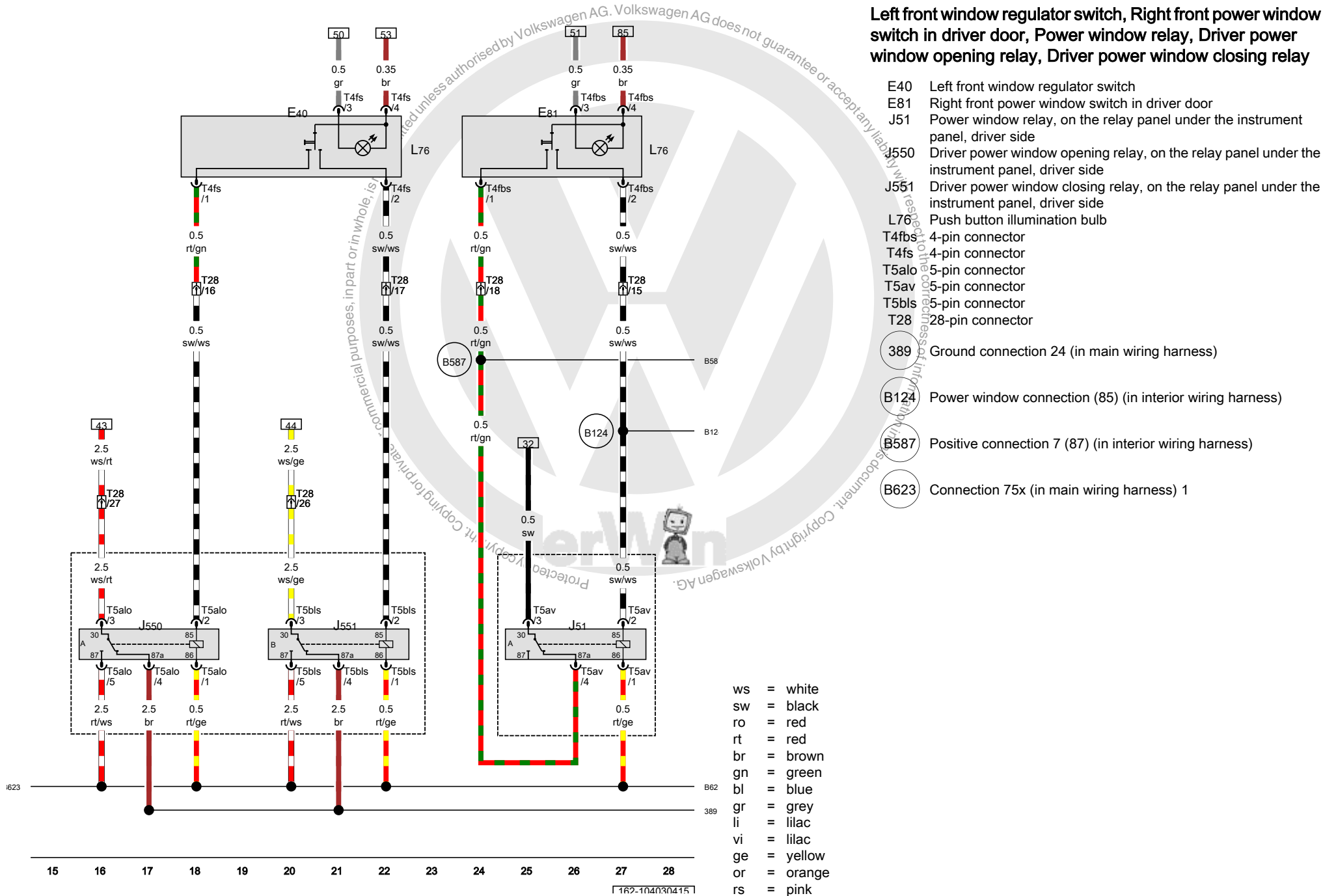
Battery, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A), Fuse panel C

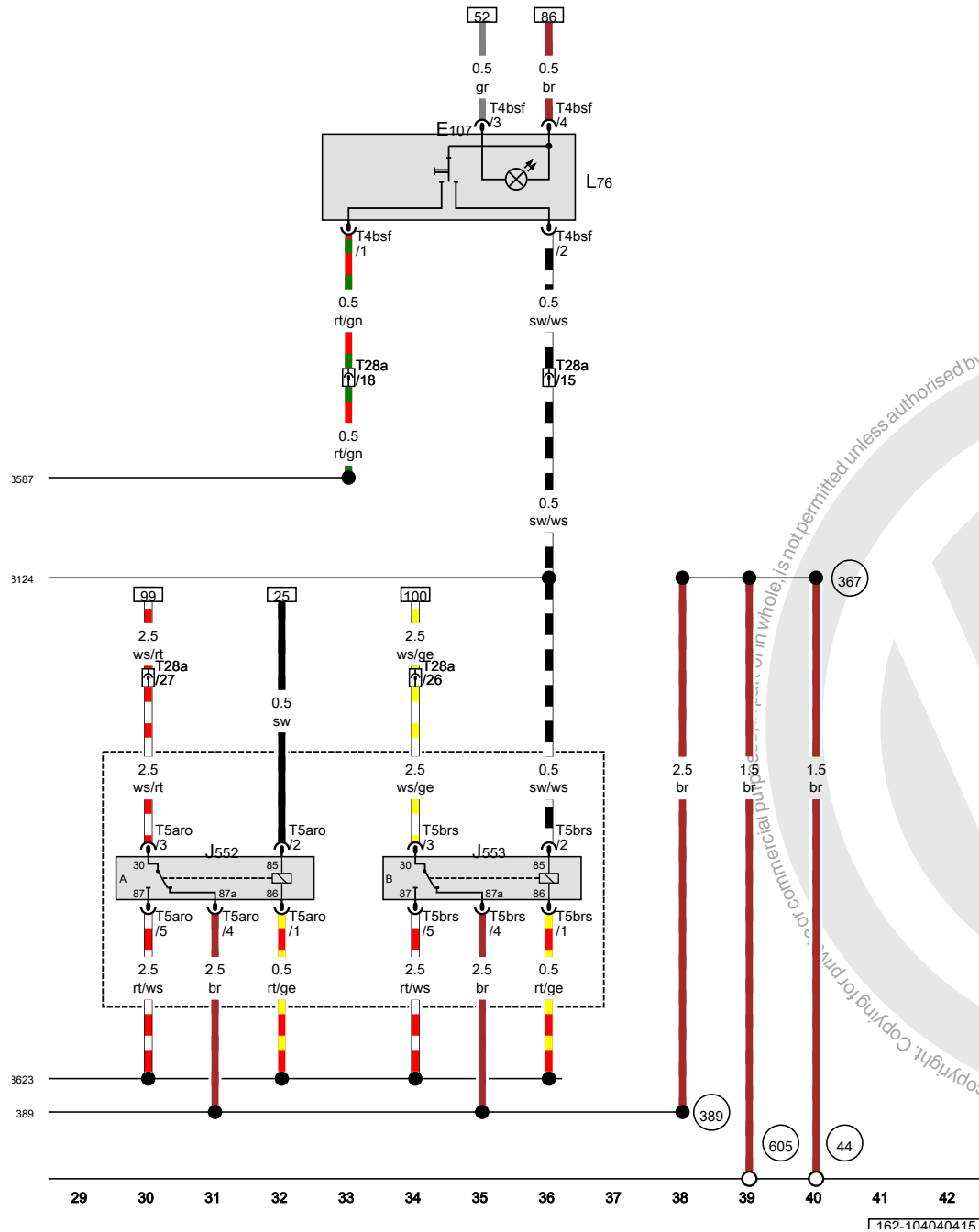


- A Battery
- C Generator
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC29 Fuse 29 (on fuse panel C)
- SC36 Fuse 36 (on fuse panel C)
- SC45 Fuse 45 (on fuse panel C)
- SC48 Fuse 48 (on fuse panel C)

- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- B623 Connection 75x (in main wiring harness) 1
- * Only for vehicles without hybrid drive

- ws = white
- sw = black
- ro = red
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- br = brown
- gn = green
- bl = blue
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- or = orange
- rs = pink





Front passenger door window regulator switch, Front passenger power window opening relay, Front passenger power window closing relay

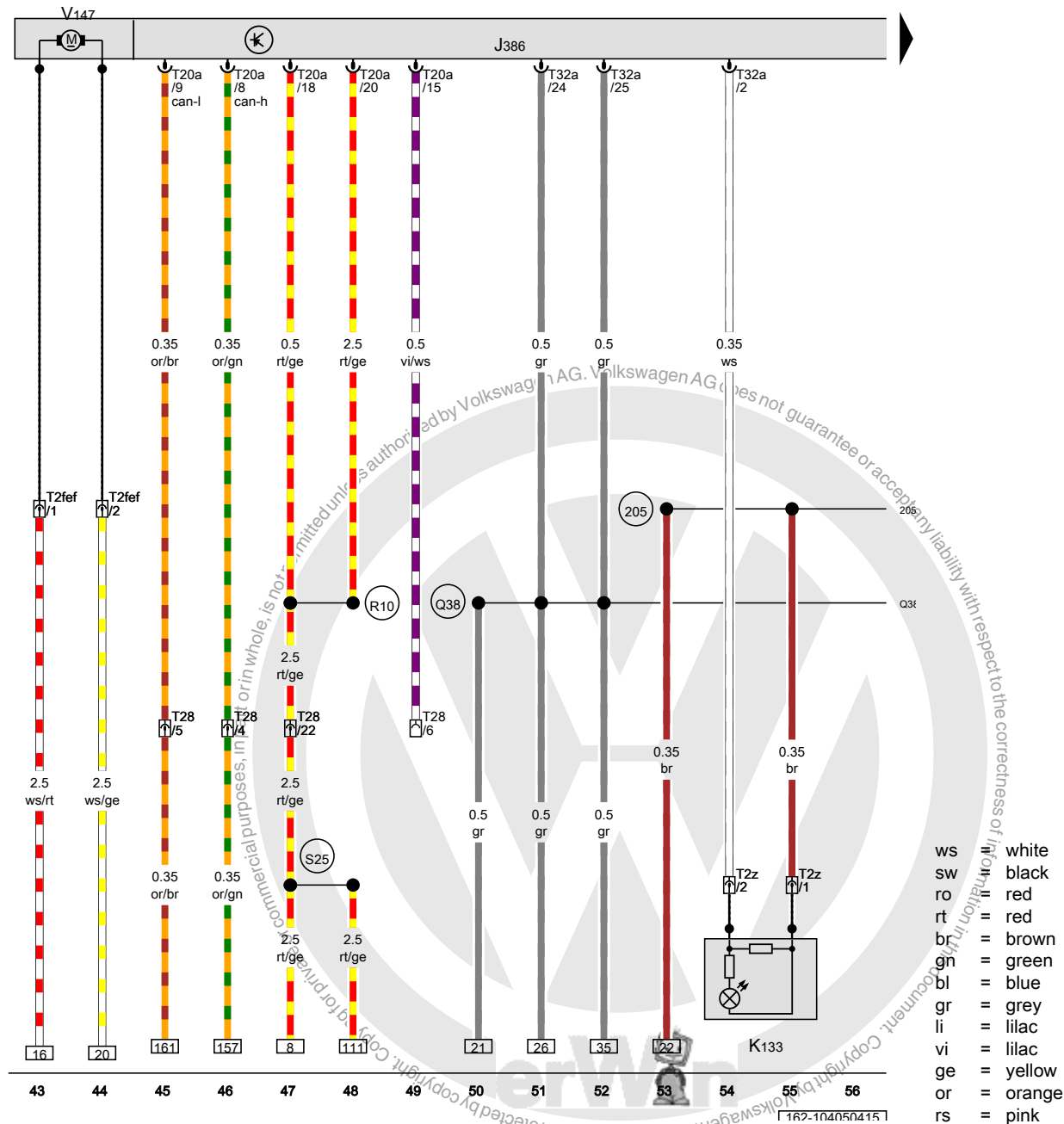
- E107 Front passenger door window regulator switch
- J552 Front passenger power window opening relay, on the relay panel under the instrument panel, driver side
- J553 Front passenger power window closing relay, on the relay panel under the instrument panel, driver side
- L76 Push button illumination bulb
- T4bsf 4-pin connector
- T5aro 5-pin connector
- T5brs 5-pin connector
- T28a 28-pin connector

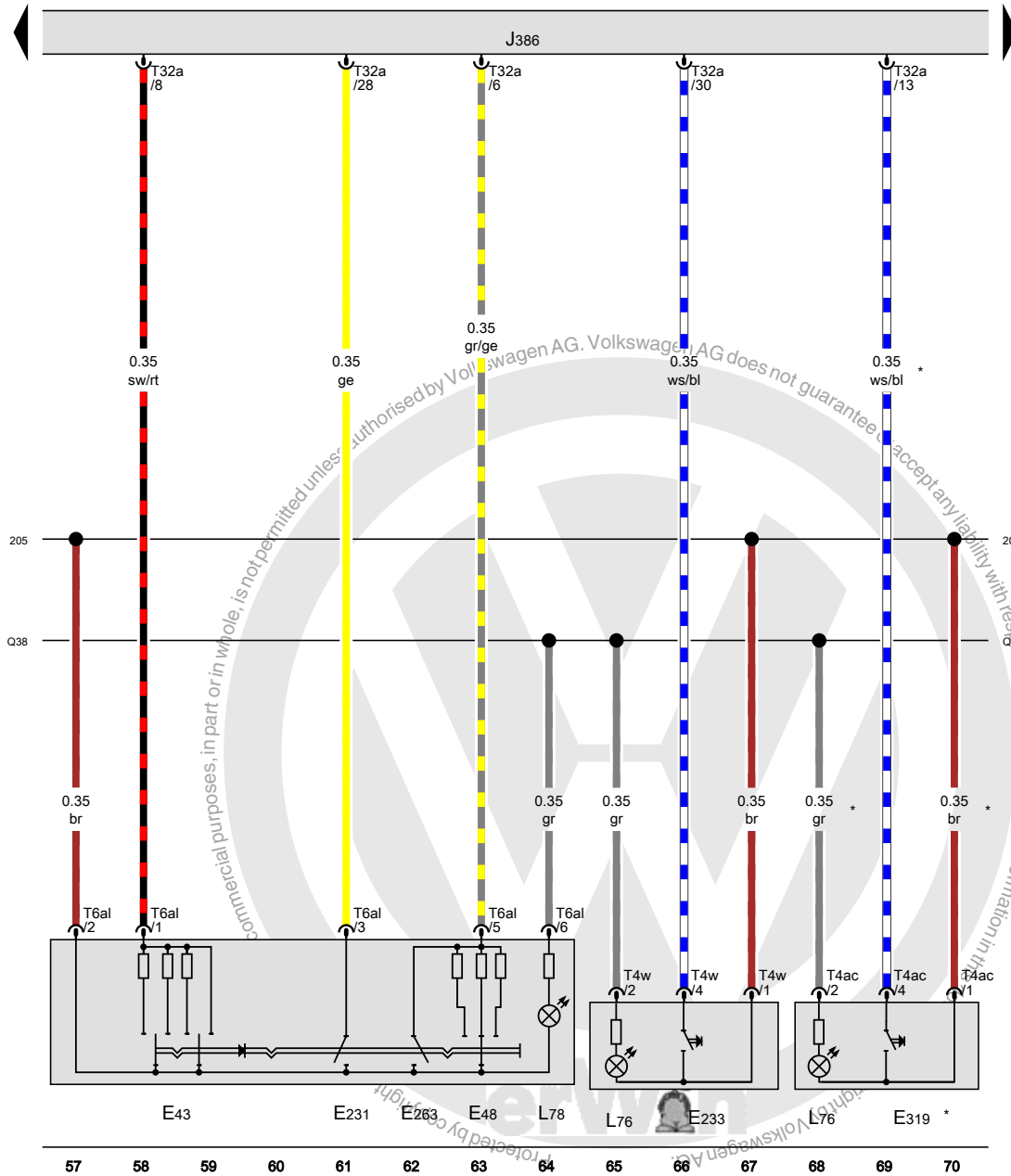
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- B124 Power window connection (85) (in interior wiring harness)
- B587 Positive connection 7 (87) (in interior wiring harness)
- B623 Connection 75x (in main wiring harness) 1

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 bl = blue
 gr = grey
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 vi = lilac
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 rs = pink

Driver door control module, Central locking -SAFE- indicator lamp, Driver window regulator motor

- J386 Driver door control module
- K133 Central locking -SAFE- indicator lamp
- T2fef Double connector
- T2z Double connector
- T20a 20-pin connector
- T28 28-pin connector
- T32a 32-pin connector
- V147 Driver window regulator motor
- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- R10 Positive connection 1 (30) (in driver door wiring harness)
- S25 Positive connection (30a) (in central locking system wiring harness)





Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Rear lid remote release button, Mirror folding switch, Fuel filler door release button, Driver door control module, Mirror adjustment switch illumination bulb

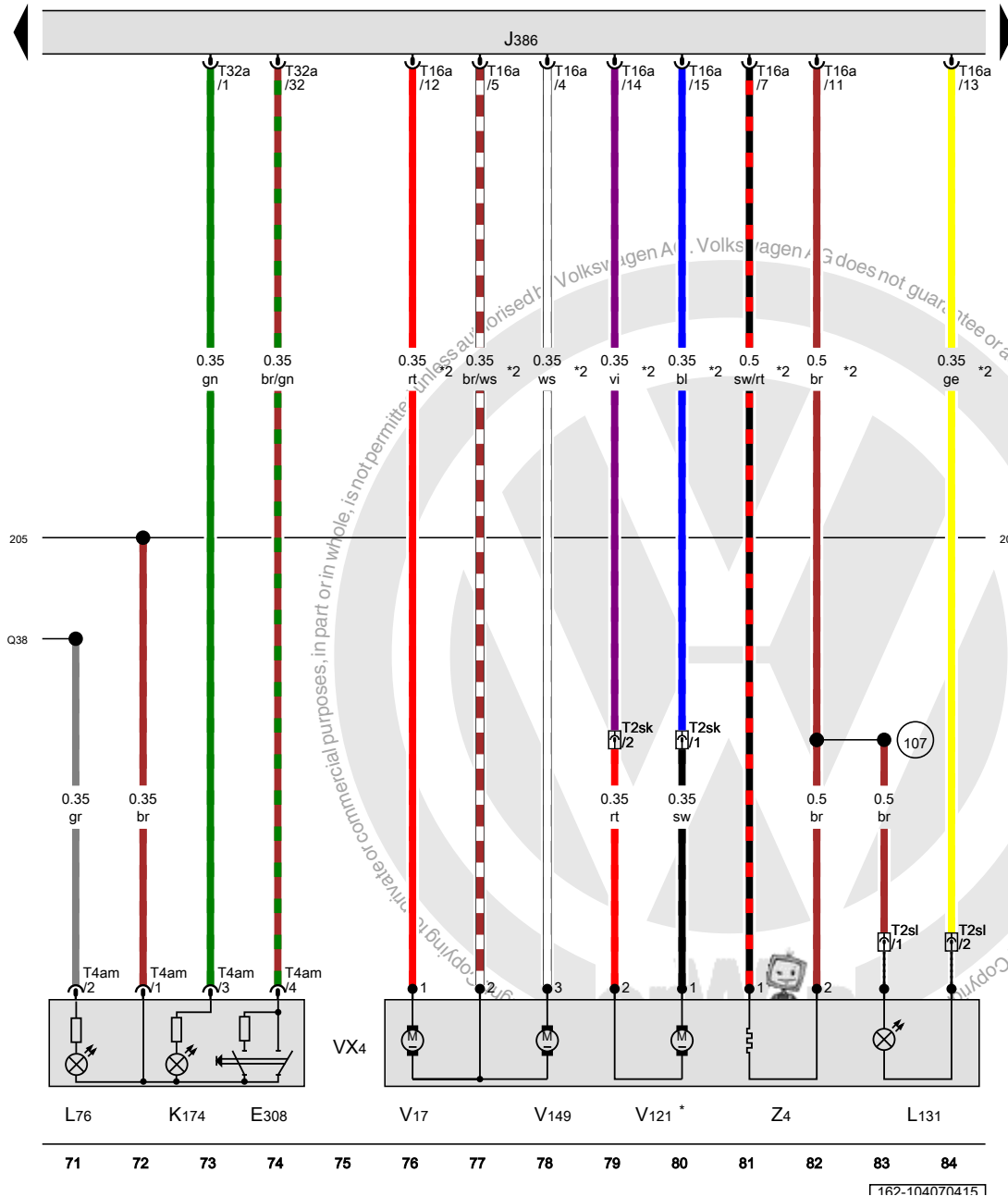
- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E231 Exterior rearview mirror heating switch
- E233 Rear lid remote release button
- E263 Mirror folding switch
- E319 Fuel filler door release button
- J386 Driver door control module
- L76 Push button illumination bulb
- L78 Mirror adjustment switch illumination bulb
- T4ac 4-pin connector
- T4w 4-pin connector
- T6al 6-pin connector
- T32a 32-pin connector

205 Ground connection (in driver door wiring harness)

Q38 Positive connection 1 (58b) (in power window wiring harness)

* USA only

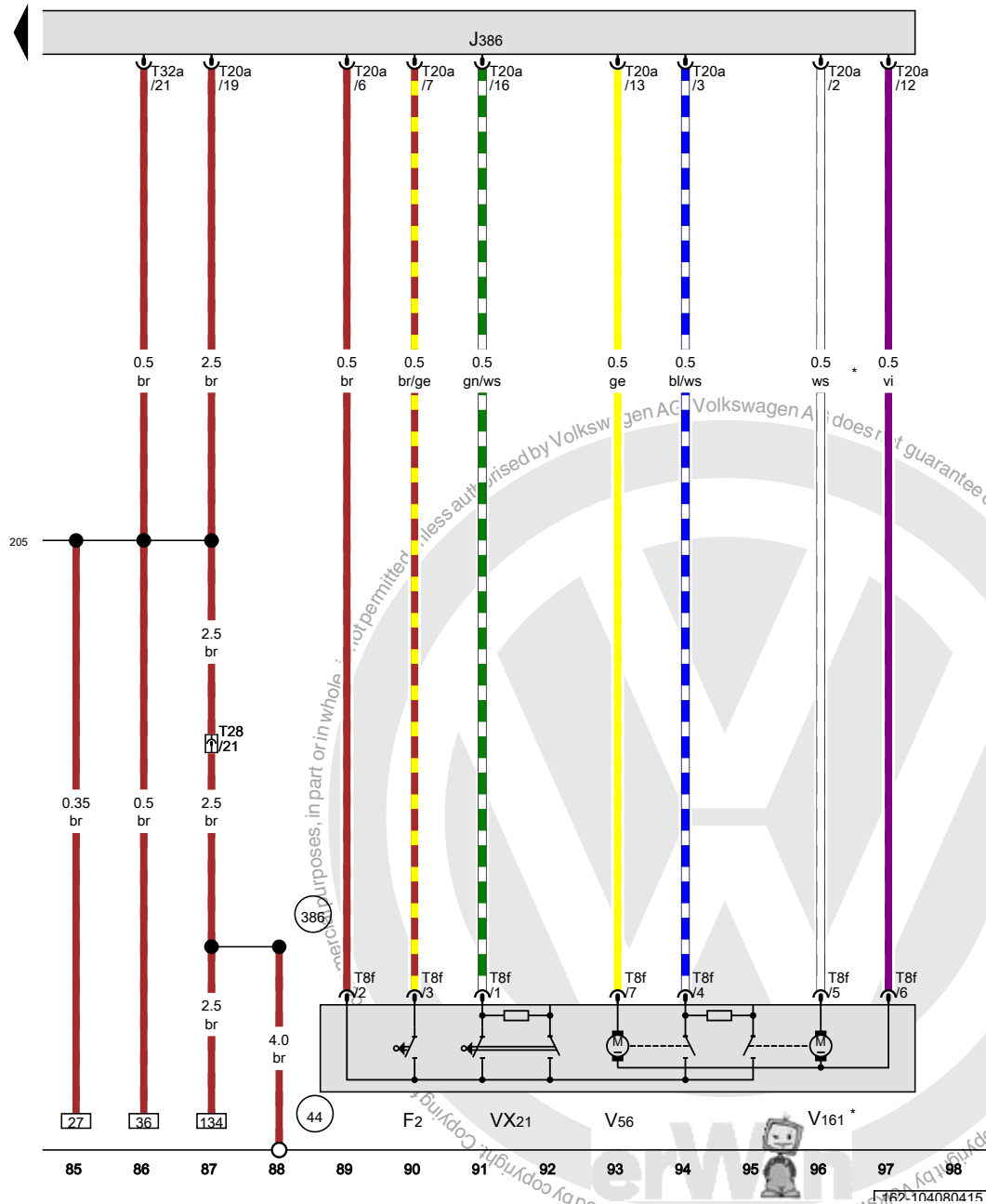
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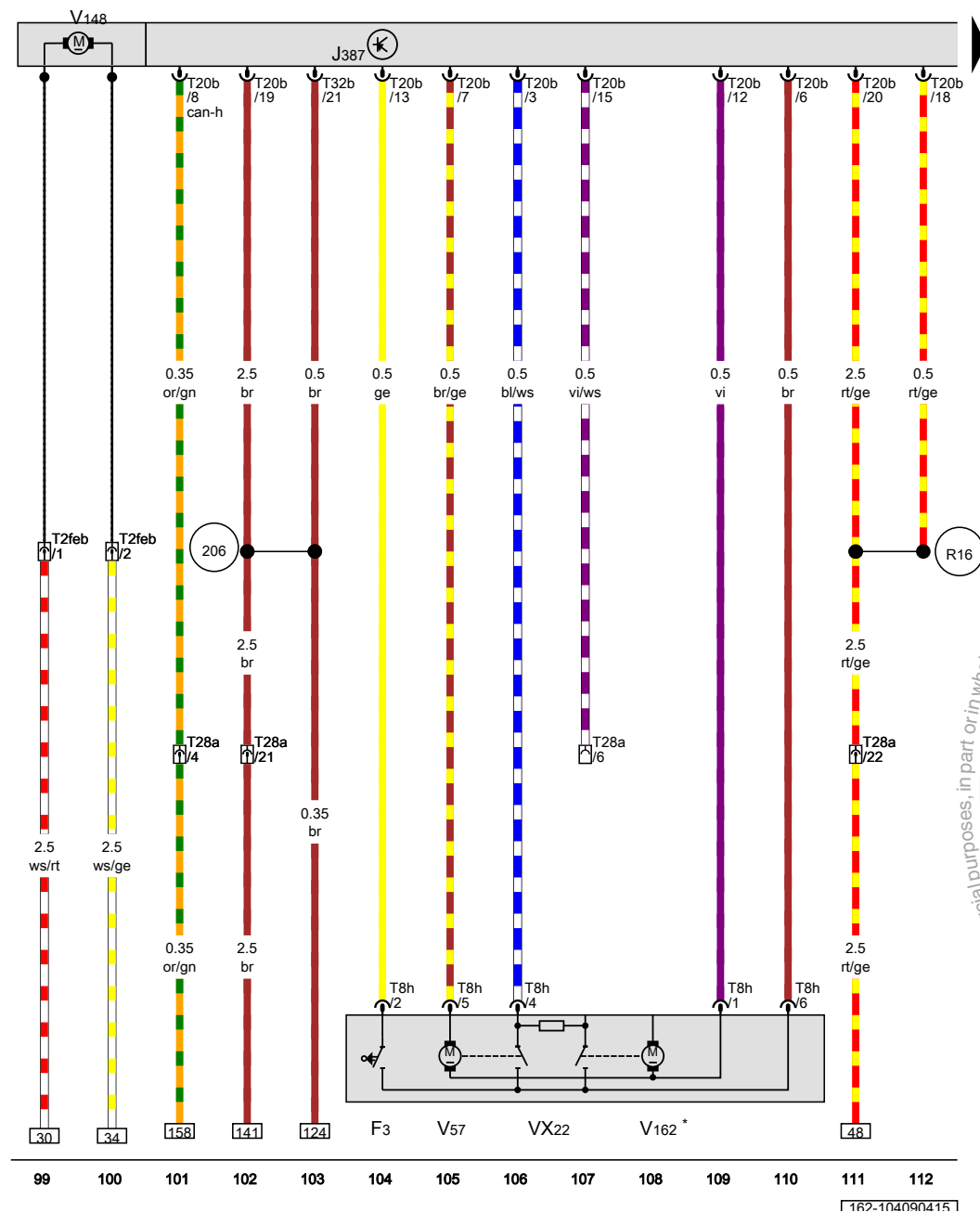
Driver interior locking button, Driver door control module, Driver exterior rearview mirror, Driver exterior rearview mirror folding motor, Driver mirror adjustment motor

- E308 Driver interior locking button
- J386 Driver door control module
- K174 Driver interior locking indicator lamp
- L76 Push button illumination bulb
- L131 Driver exterior rearview mirror turn signal bulb
- T2sk Double connector, in the driver exterior rearview mirror housing
- T2sl Double connector, in the driver exterior rearview mirror housing
- T4am 4-pin connector
- T16a 16-pin connector
- T32a 32-pin connector
- VX4 Driver exterior rearview mirror
- V17 Driver mirror adjustment motor 2
- V121 Driver exterior rearview mirror folding motor
- V149 Driver mirror adjustment motor
- Z4 Heated driver exterior rearview mirror

- 107 Ground connection (in exterior mirror wiring harness)
- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)
- * Depending on equipment
- *2 The color of the wires depends on vehicle equipment



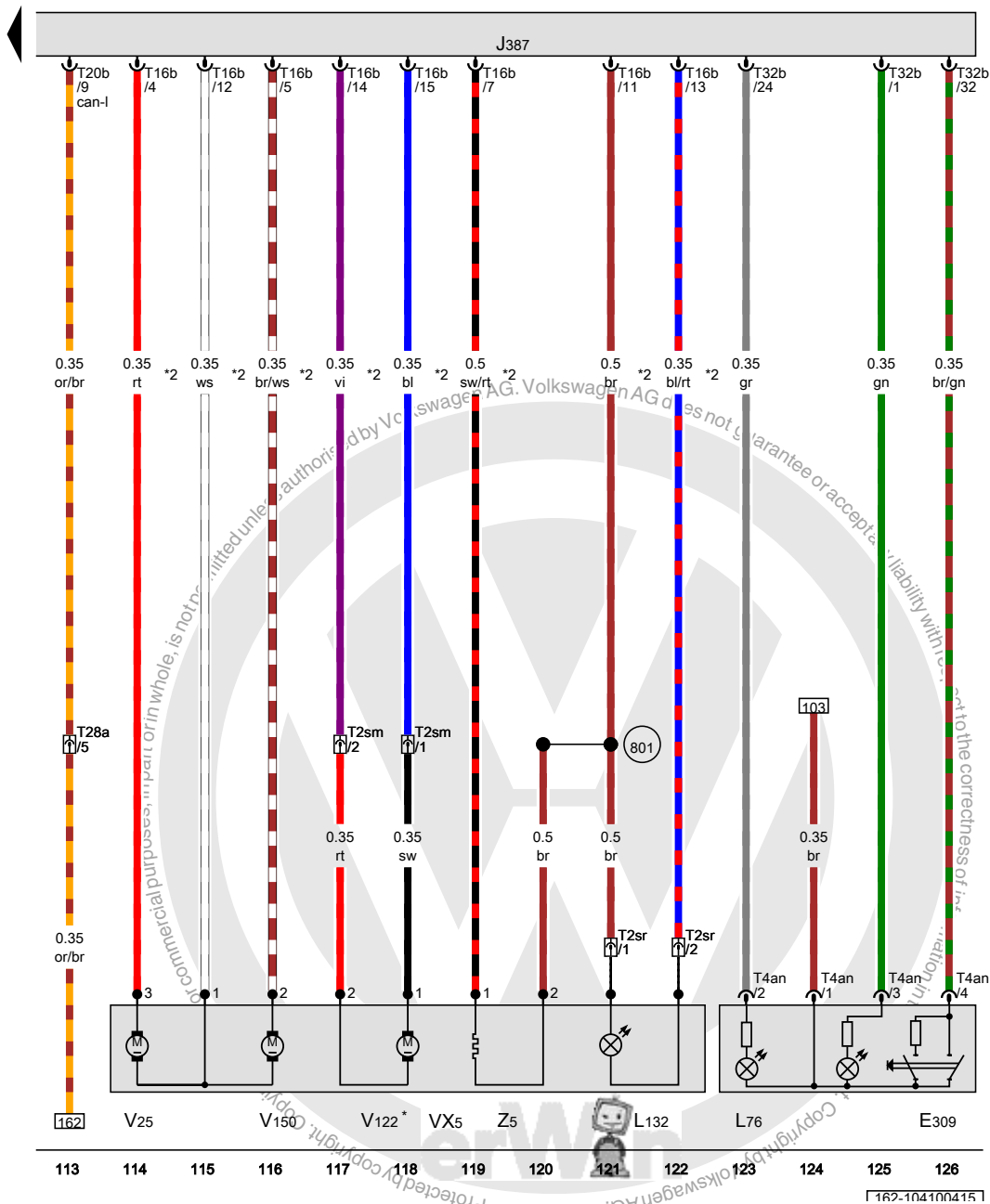
Front passenger door contact switch, Front passenger door control module, Front passenger door lock unit, Front passenger door central locking system motor, Front passenger window regulator motor



- F3 Front passenger door contact switch
- J387 Front passenger door control module
- T2feb Double connector
- T8h 8-pin connector
- T20b 20-pin connector
- T28a 28-pin connector
- T32b 32-pin connector
- VX22 Front passenger door lock unit
- V57 Front passenger door central locking system motor
- V148 Front passenger window regulator motor
- V162 Front passenger central locking -SAFE- motor

- 206 Ground connection (in front passenger door wiring harness)
- R16 Positive connection 1 (30) (in front passenger door wiring harness)
- * Not for USA

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Front passenger interior locking button, Front passenger door control module, Front passenger exterior rearview mirror, Front passenger exterior rearview mirror folding motor, Front passenger mirror adjustment motor

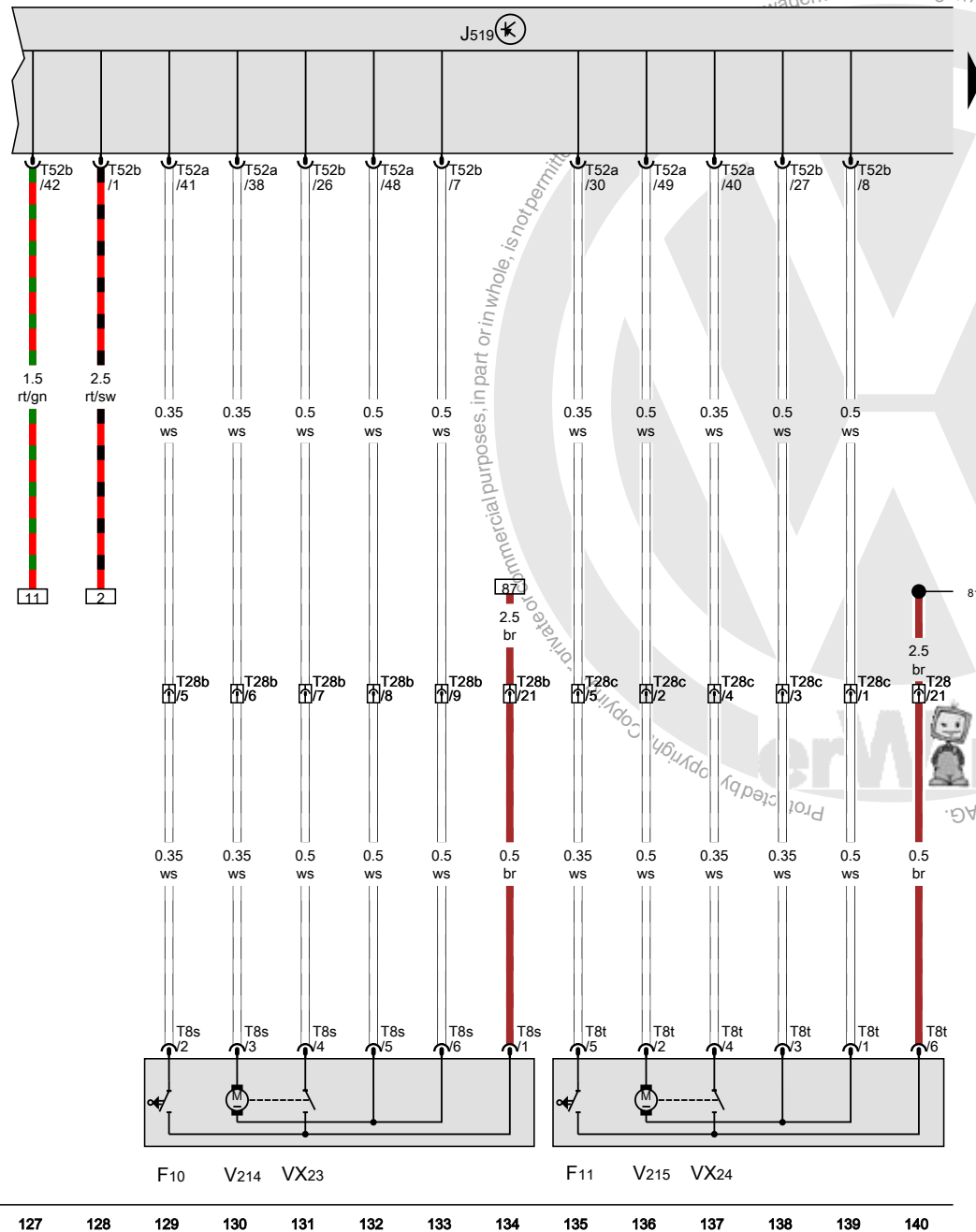
- E309 Front passenger interior locking button
- J387 Front passenger door control module
- L76 Push button illumination bulb
- L132 Front passenger exterior rearview mirror turn signal bulb
- T2sm Double connector, in the front passenger exterior rearview mirror housing
- T2sr Double connector, in the front passenger exterior rearview mirror housing
- T4an 4-pin connector
- T16b 16-pin connector
- T20b 20-pin connector
- T28a 28-pin connector
- T32b 32-pin connector
- VX5 Front passenger exterior rearview mirror
- V25 Front passenger side mirror adjustment motor 2
- V122 Front passenger exterior rearview mirror folding motor
- V150 Front passenger mirror adjustment motor
- Z5 Heated front passenger exterior rearview mirror
- 801 Ground connection 2 (in exterior rearview mirror wiring harness), in the right door, near the exterior rearview mirror
- * Depending on equipment
- *2 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
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- rs = pink

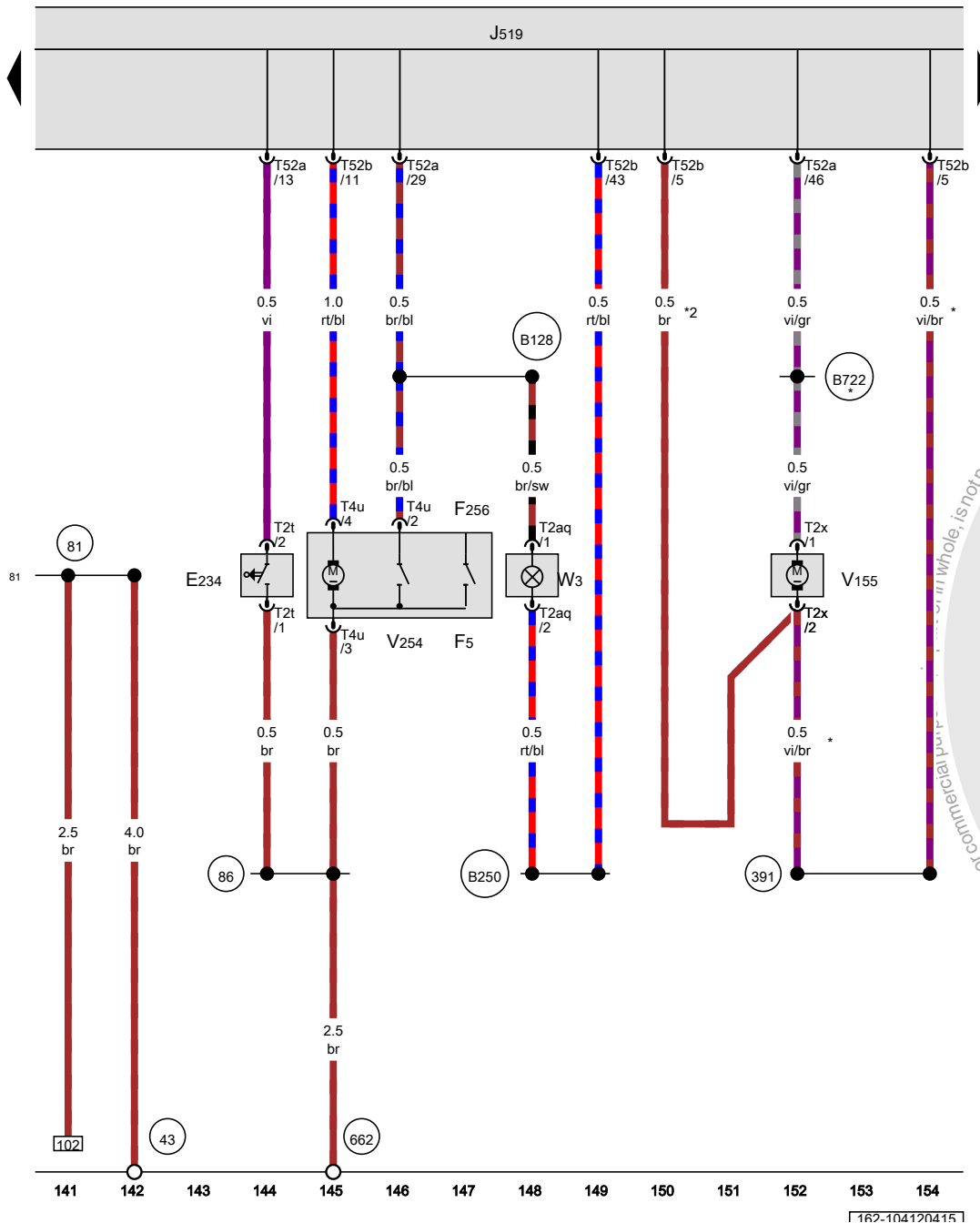
Left rear door contact switch, Right rear door contact switch, Vehicle electrical control module system, Left rear door lock unit, Right rear door lock unit, Left rear central locking -lock- motor, Right rear central locking -lock- motor

- F10 Left rear door contact switch
- F11 Right rear door contact switch
- J519 Vehicle electrical control module system
- T8s 8-pin connector
- T8t 8-pin connector
- T28 28-pin connector
- T28b 28-pin connector
- T28c 28-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- VX23 Left rear door lock unit
- VX24 Right rear door lock unit
- V214 Left rear central locking -lock- motor
- V215 Right rear central locking -lock- motor

81 Ground connection 1 (in instrument panel wiring harness)



- ws = white
- sw = black
- ro = red
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- br = brown
- gn = green
- bl = blue
- gr = grey
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

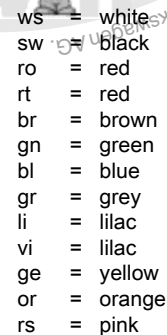


Release button in rear lid handle, Luggage compartment lamp switch, Rear lid lock unit, Vehicle electrical control module system, Fuel filler door unlock motor, Rear lid opening motor, Luggage compartment lamp

- E234 Release button in rear lid handle
- F5 Luggage compartment lamp switch
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- T2aq Double connector
- T2t Double connector
- T2x Double connector
- T4u 4-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- V155 Fuel filler door unlock motor
- V254 Rear lid opening motor
- W3 Luggage compartment lamp

- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 86 Ground connection 1 (in rear wiring harness)
- 391 Ground connection 26 (in main wiring harness)
- 662 Ground connection in left rear side panel
- B128 Luggage compartment lamp connection (in interior wiring harness)
- B250 Positive connection (in roof wiring harness)
- B722 Central locking connection 3 (in main wiring harness)

- ws = white
 - sw = black
 - ro = red
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 - bl = blue
 - gr = grey
 - li = lilac
 - vi = lilac
 - ge = yellow
 - or = orange
 - rs = pink
- * Running change
*2 Omitted as a running change



| | |
|------|--|
| E1 | Light switch |
| F266 | Engine hood contact switch |
| J519 | Vehicle electrical control module system |
| J533 | Data bus on board diagnostic interface |
| T2n | Double connector |
| T10h | 10-pin connector |
| T20 | 20-pin connector |
| T52a | 52-pin connector |
| T52b | 52-pin connector |
| T52c | 52-pin connector |

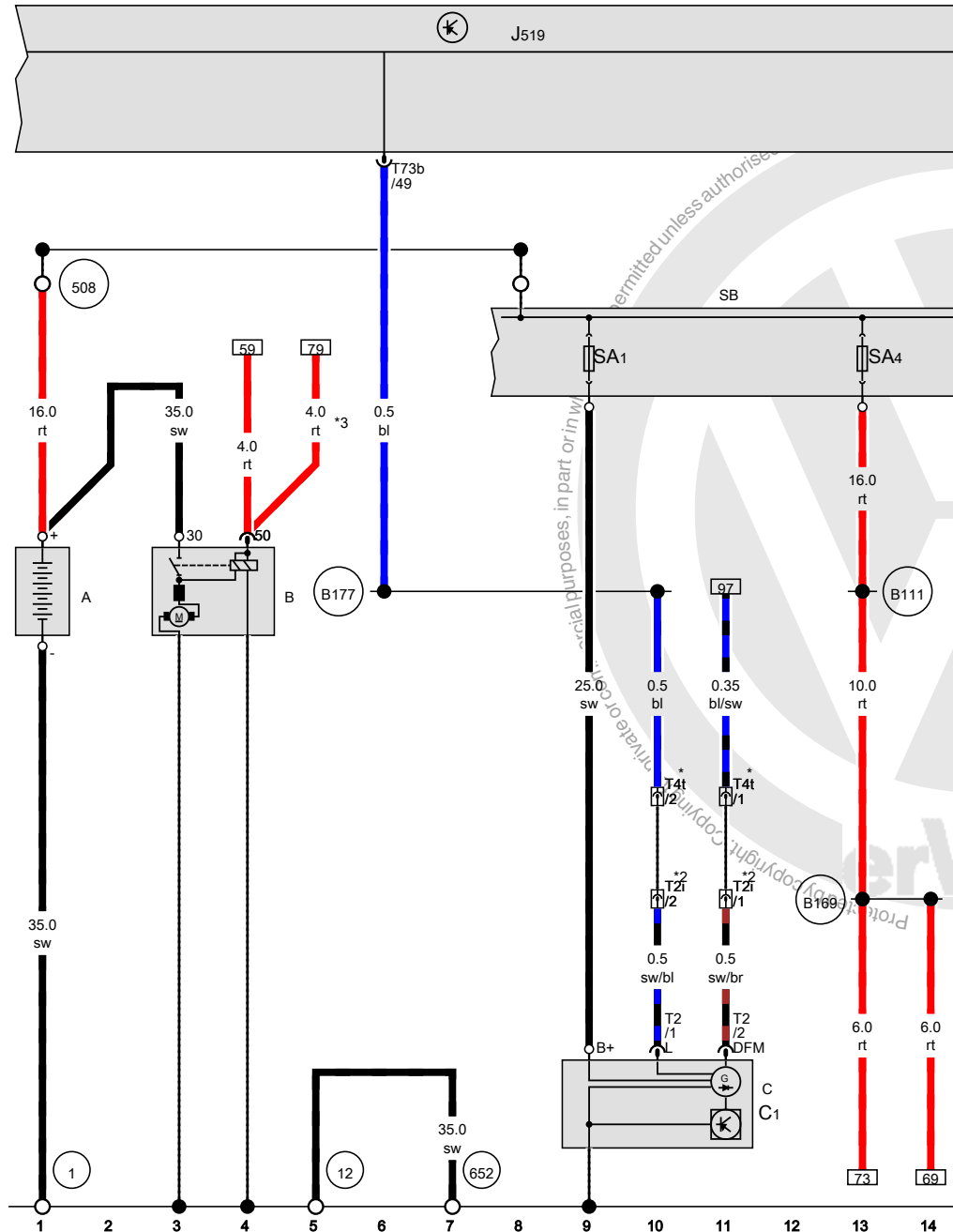
- | | |
|------|---|
| 132 | Ground connection 3 (in engine compartment wiring harness) |
| 167 | Ground connection 4 (in engine compartment wiring harness) |
| 376 | Ground connection 11 (in main wiring harness) |
| 655 | Ground connection on left headlamp |
| A184 | Hood contact switch connection (in instrument panel wiring harness) |
| B340 | Connection 58d (in main wiring harness) 1 |
| B397 | Comfort system CAN bus high connection 1 (in main wiring harness) |
| B406 | Comfort system CAN bus low connection 1 (in main wiring harness) |
| * | Omitted as a running change |
| *2 | Running change |

1.8L Gasoline Engine , CPKA,(7GJ)

From June 2013



Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse Panel B



- A Battery
- B Starter
- C Generator
- C1 Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T73b 73-Pin Connector
- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)
- For Vehicles with A/C System
- For Vehicles Without an A/C System
- *2 Depending on Equipment
- *3

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162-105020517

**Motronic Engine Control Module Power Supply Relay,
Vehicle Electrical System Control Module, Fuse Panel B,
Fuse 14 (On Fuse Panel B)**

- J271 Motronic Engine Control Module Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB6 Fuse 6 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB9 Fuse 9 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)

(B350) Positive Connection 1 (87a) (in Main Wiring Harness)

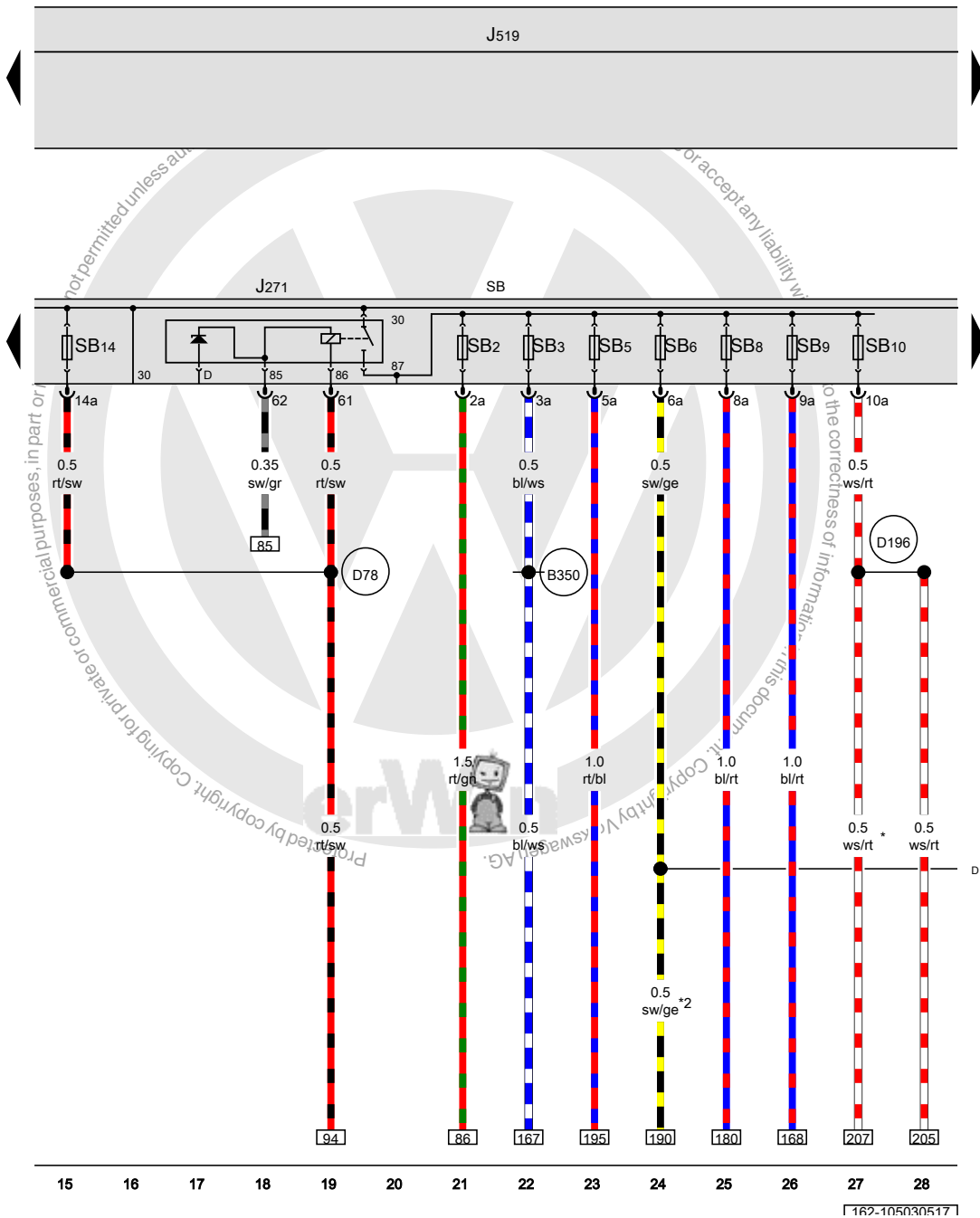
(D78) Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)

(D196) Connection 87A (in Engine Pre-Wiring Harness) 2

(D197) Connection 5 (87A) (in Engine Compartment Wiring Harness)

- * For Vehicles with a Manual Transmission
- *2 Depending on Equipment

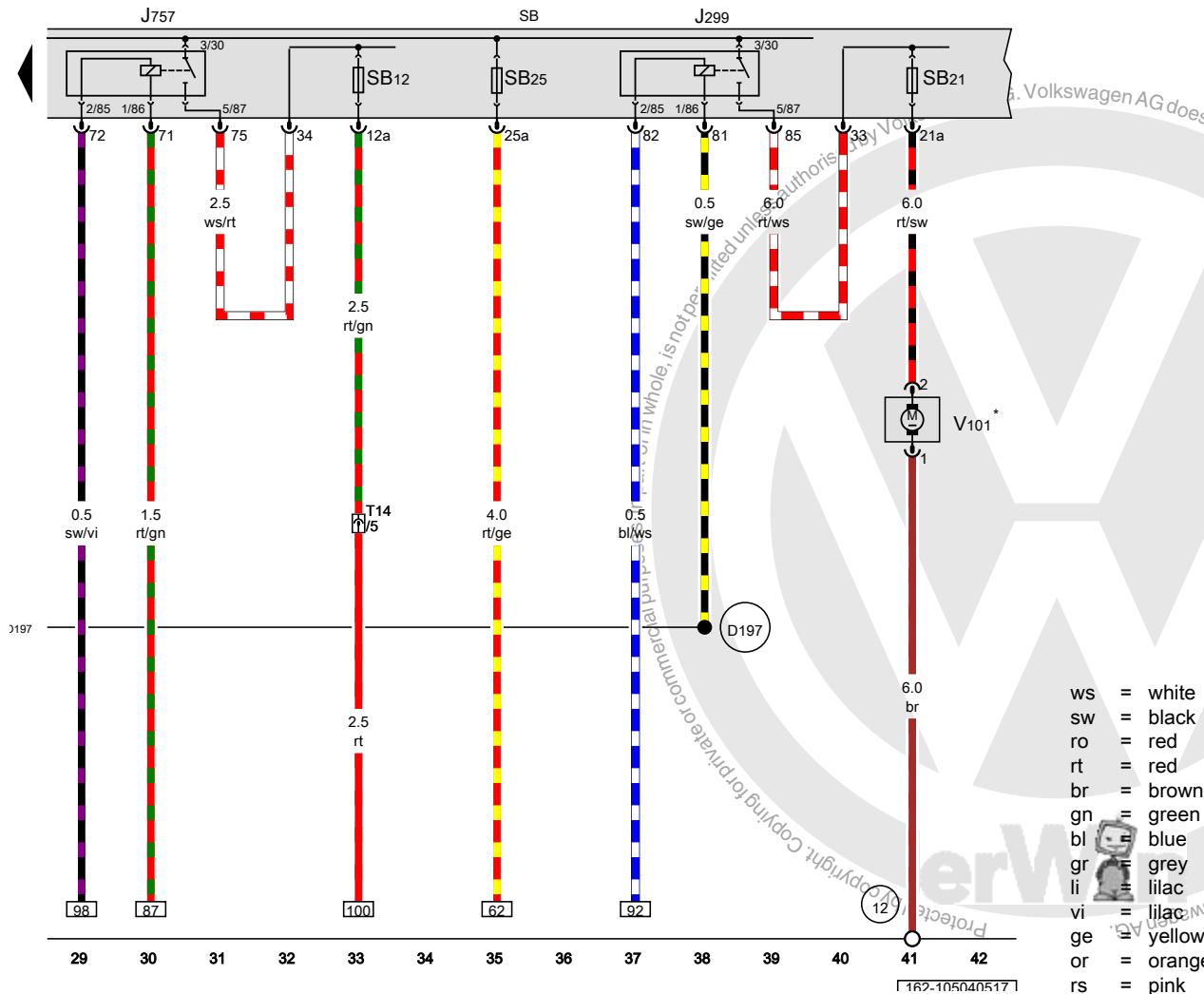
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sw = black
ro = red
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or = orange
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Secondary Air Injection Pump Relay, Vehicle Electrical System Control Module, Engine Component Power Supply Relay, Fuse Panel B, Secondary Air Injection Pump Motor

- J299 Secondary Air Injection Pump Relay
- J519 Vehicle Electrical System Control Module
- J757 Engine Component Power Supply Relay
- SB Fuse Panel B
- SB12 Fuse 12 (On Fuse Panel B)
- SB21 Fuse 21 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T14 14-Pin Connector
- V101 Secondary Air Injection Pump Motor

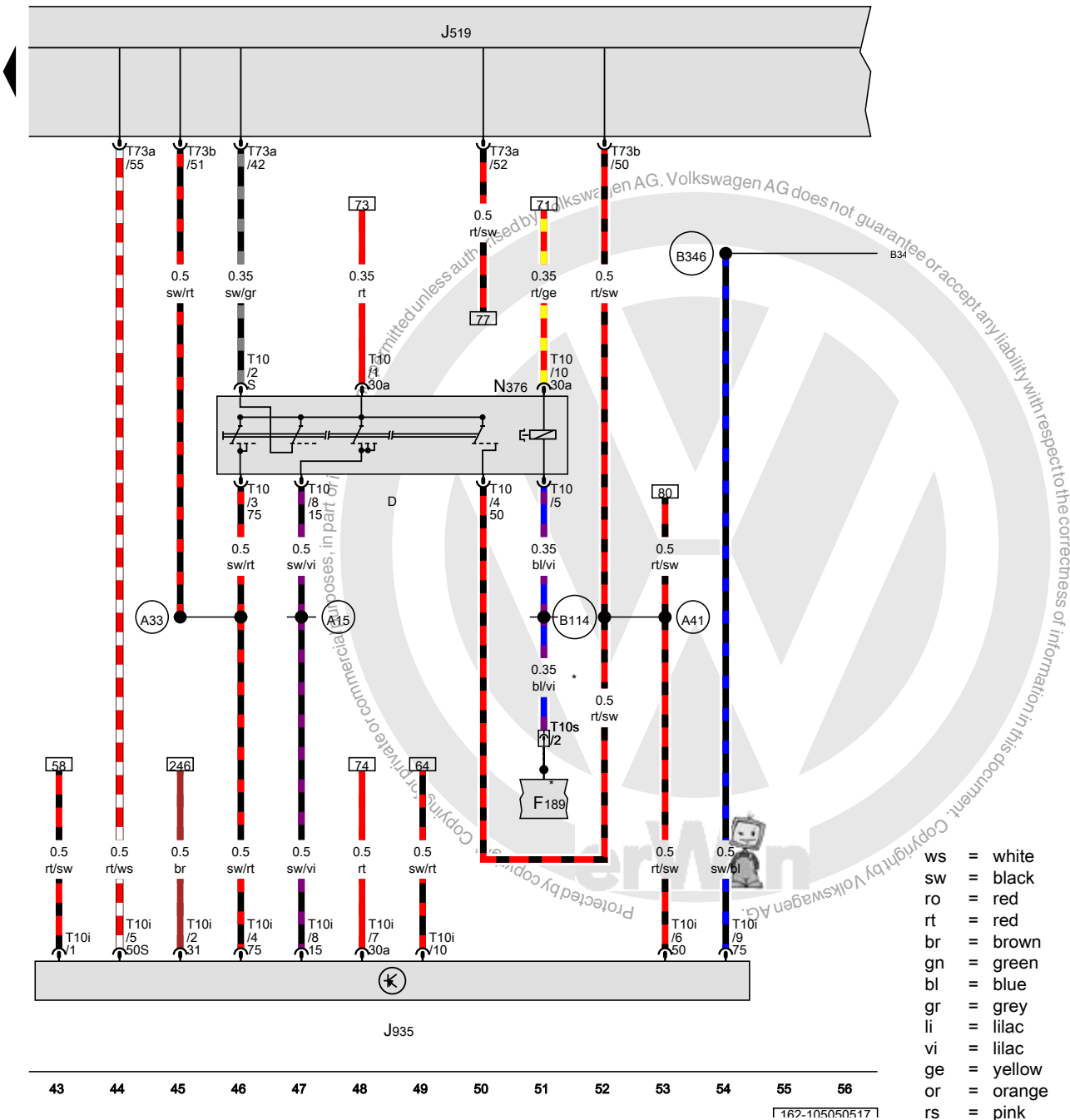
- 12 Ground Connection in Engine Compartment, Left
- D197 Connection 5 (87A) (in Engine Compartment Wiring Harness)
- * For USA Only



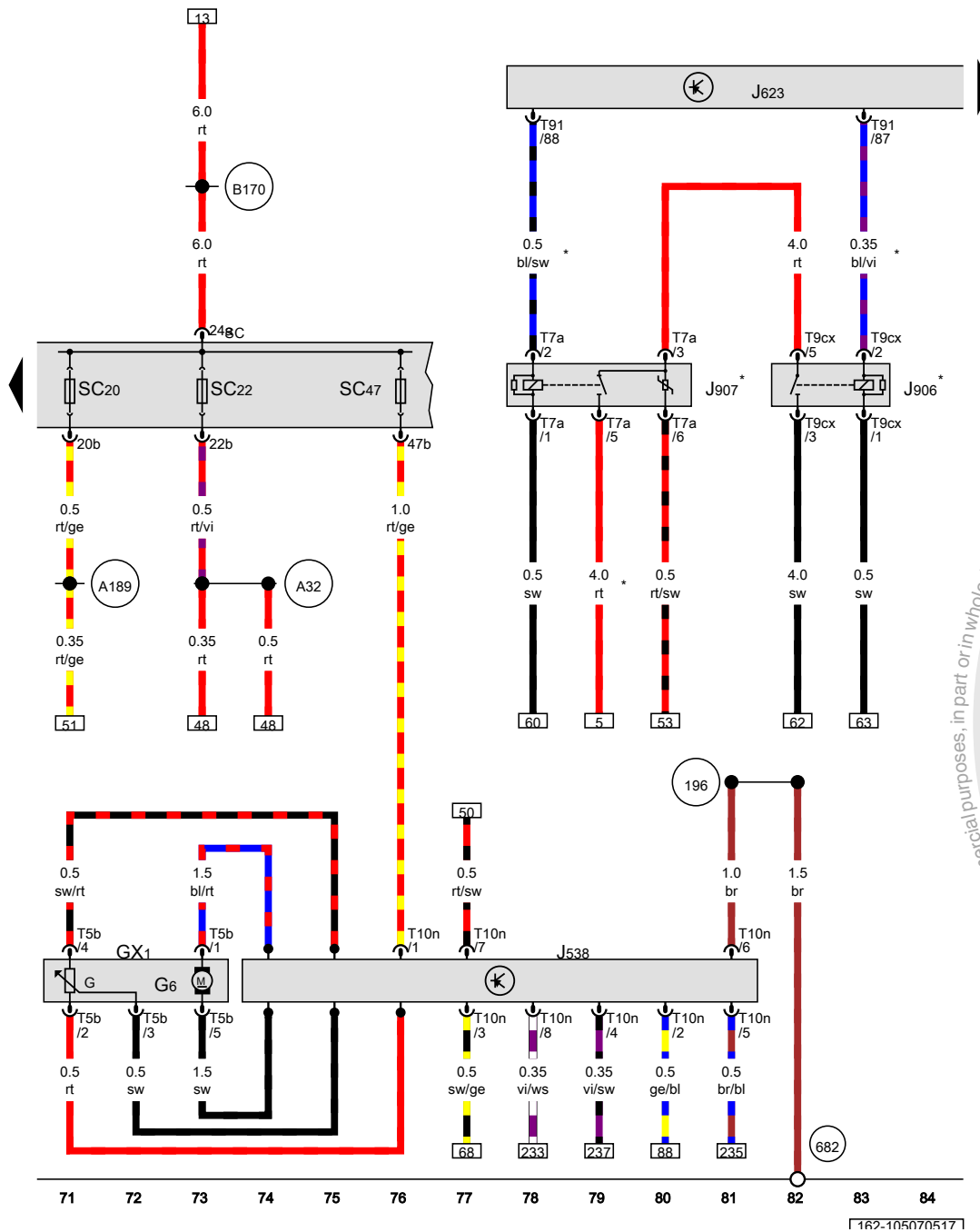
Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box

- D Ignition/Starter Switch
- F189 Tiptronic Switch
- J519 Vehicle Electrical System Control Module
- J935 Converter Box
- N376 Ignition Switch Key Lock Solenoid
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T10s 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- A15 Plus Connection (15) (in Instrument Cluster Wiring Harness)
- A33 Connection 75 (in Instrument Panel Wiring Harness)
- A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
- B114 Lock Switch Connection (in Interior Wiring Harness)
- B346 Connection 75 (in Main Wiring Harness) 1
- * For Vehicles with Automatic Transmission



- ws = white
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- gn = green
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- vi = lilac
- ge = yellow
- or = orange
- rs = pink

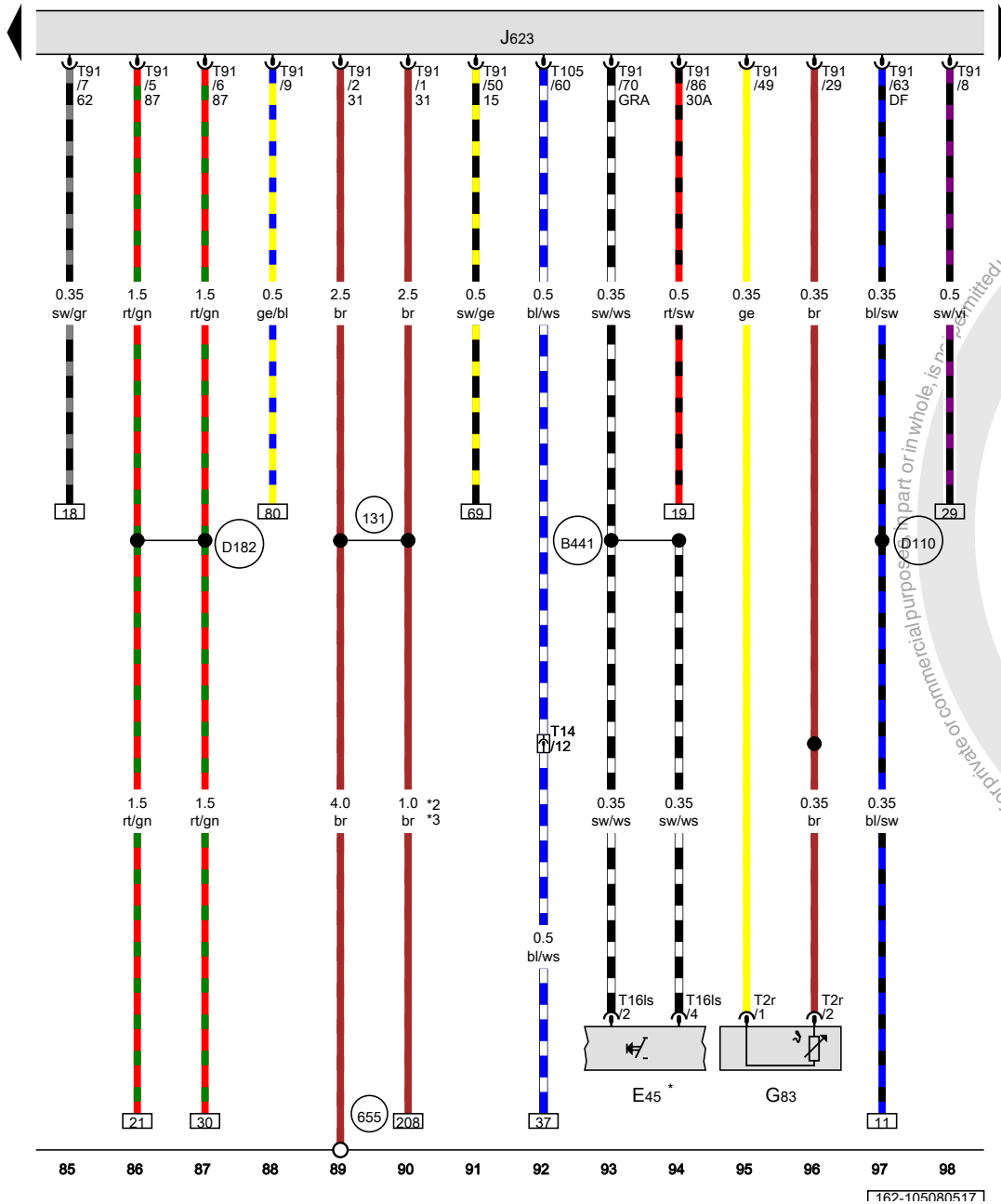


Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Engine Control Module, Fuse Panel C

- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J538 Fuel Pump Control Module
- J623 Engine Control Module
- J906 Starter Relay 1
- J907 Starter Relay 2
- SC Fuse Panel C
- SC20 Fuse 20 (On Fuse Panel C)
- SC22 Fuse 22 (On Fuse Panel C)
- SC47 Fuse 47 (On Fuse Panel C)
- T5b 5-Pin Connector
- T7a 7-Pin Connector
- T9cx 9-Pin Connector
- T10n 10-Pin Connector
- T91 91-Pin Connector
- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- A32 Positive Connection (30) (in Instrument Panel Wiring Harness)
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- * Depending on Equipment

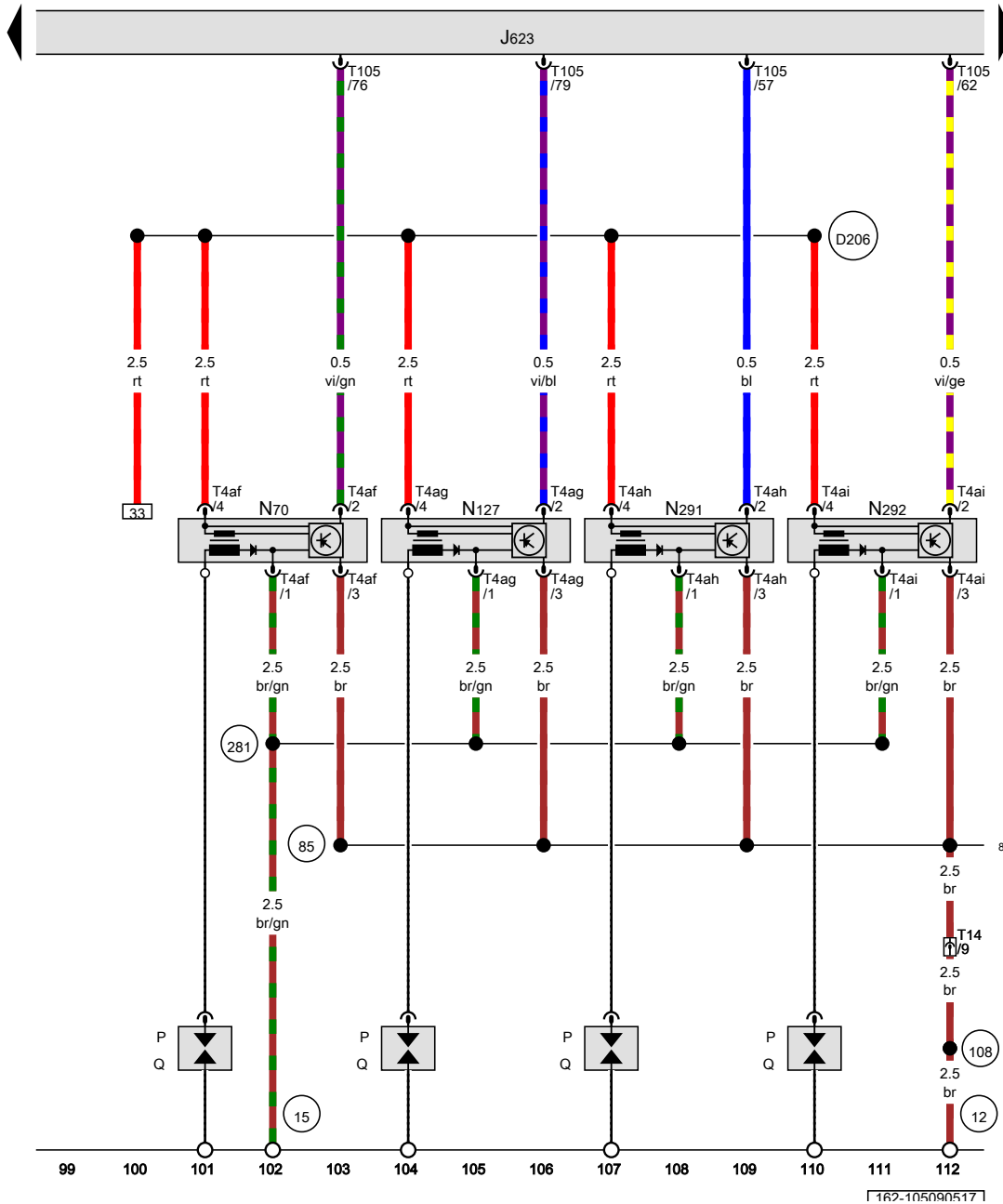
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 sw = black
 ro = red
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 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
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 or = orange
 rs = pink

**Engine Coolant Temperature Sensor on Radiator Outlet,
Engine Control Module**



- E45 Cruise Control Switch
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- J623 Engine Control Module
- T2r 2-Pin Connector
- T14 14-Pin Connector
- T16ls 16-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector
- 131 Ground Connection 2 (in Engine Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- B441 Cruise Control Connection (in Main Wiring Harness)
- D110 Connection 8 (in Engine Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine Compartment Wiring Harness)
- * For Vehicles with Cruise Control System
- *2 For Vehicles with a Manual Transmission
- *3 For USA Only

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



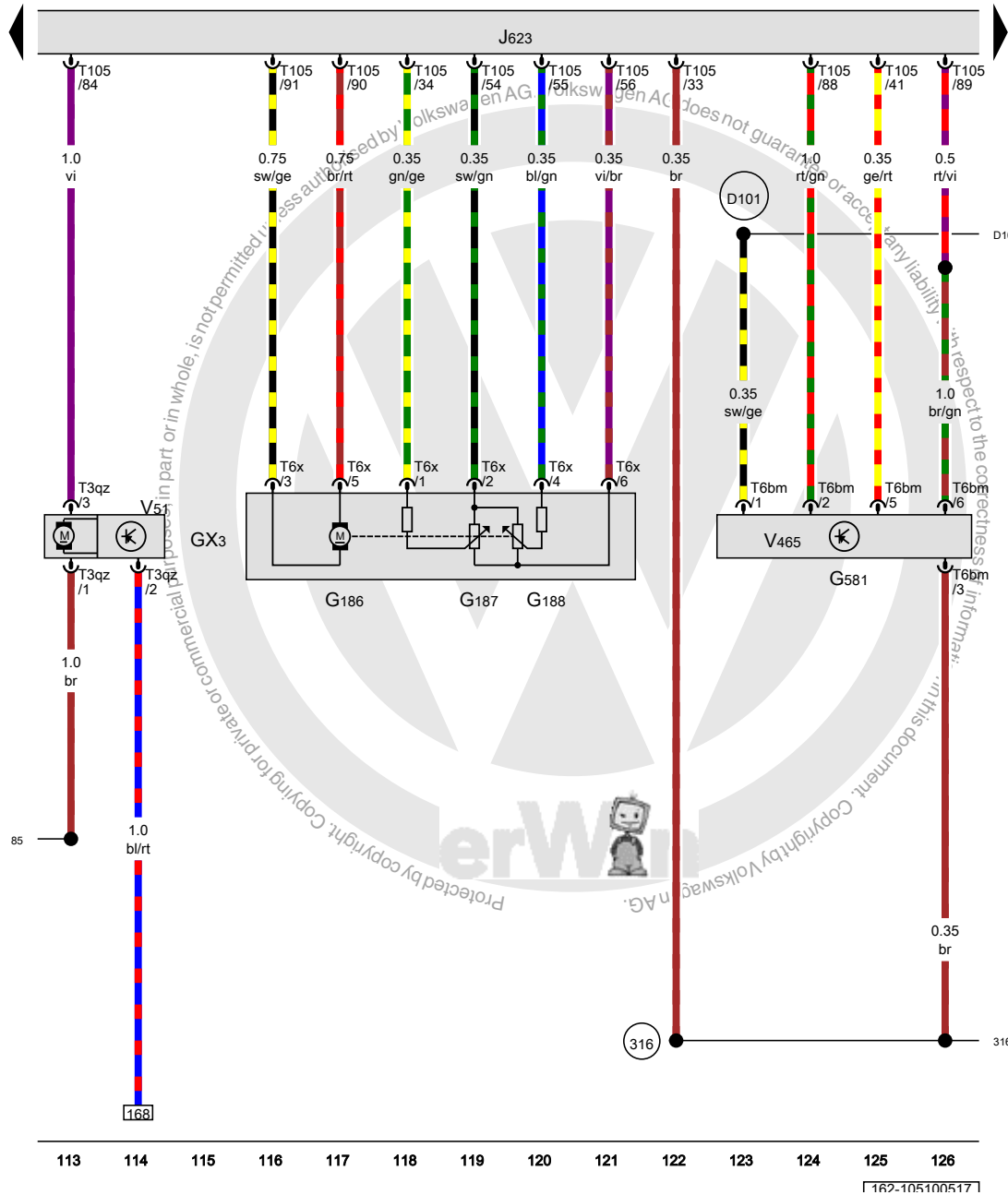
Engine Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors, Spark Plugs

- J623 Engine Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T14 14-Pin Connector
- T105 105-Pin Connector

- 12 Ground Connection in Engine Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

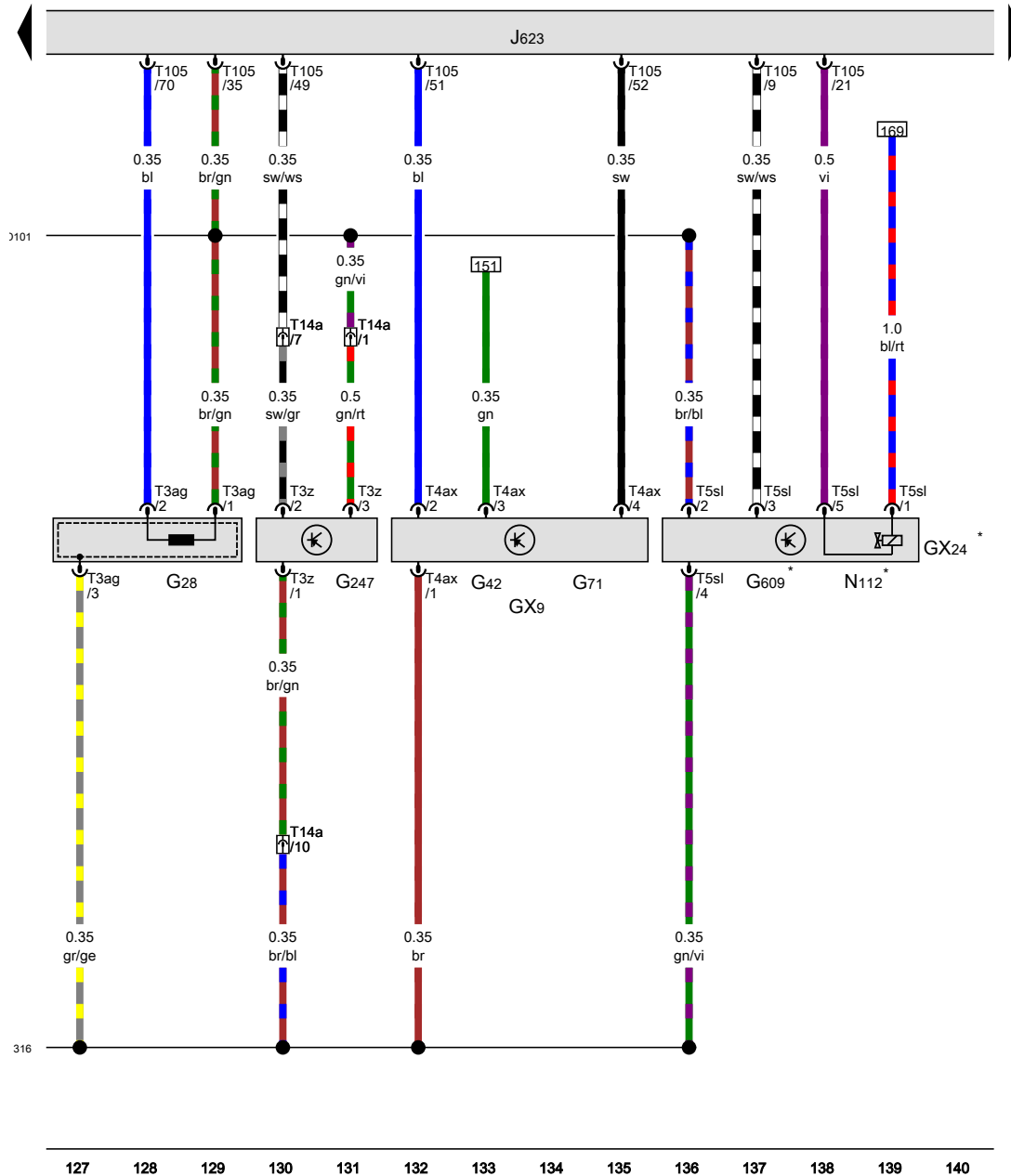
162-105090517



Throttle Valve Control Module, EPC Throttle Drive, Charge Air Pressure Actuator Position Sensor, Engine Control Module, After-Run Coolant Pump

- GX3 Throttle Valve Control Module
- G186 EPC Throttle Drive
- G187 EPC Throttle Drive Angle Sensor 1
- G188 EPC Throttle Drive Angle Sensor 2
- G581 Charge Air Pressure Actuator Position Sensor
- J623 Engine Control Module
- T3qz 3-Pin Connector
- T6bm 6-Pin Connector
- T6x 6-Pin Connector
- T105 105-Pin Connector
- V51 After-Run Coolant Pump
- V465 Charge Air Pressure Actuator

- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D101 Connection 1 (in Engine Compartment Wiring Harness)



Intake Manifold Sensor, Secondary Air System, Engine Speed Sensor, Fuel Pressure Sensor, Engine Control Module, Secondary Air Injection Solenoid Valve

- GX9 Intake Manifold Sensor
- GX24 Secondary Air System
- G28 Engine Speed Sensor
- G42 Intake Air Temperature Sensor
- G71 Manifold Absolute Pressure Sensor
- G247 Fuel Pressure Sensor
- G609 Secondary Air Injection Sensor 1
- J623 Engine Control Module
- N112 Secondary Air Injection Solenoid Valve
- T3ag 3-Pin Connector
- T3z 3-Pin Connector
- T4ax 4-Pin Connector
- T5sl 5-Pin Connector
- T14a 14-Pin Connector
- T105 105-Pin Connector

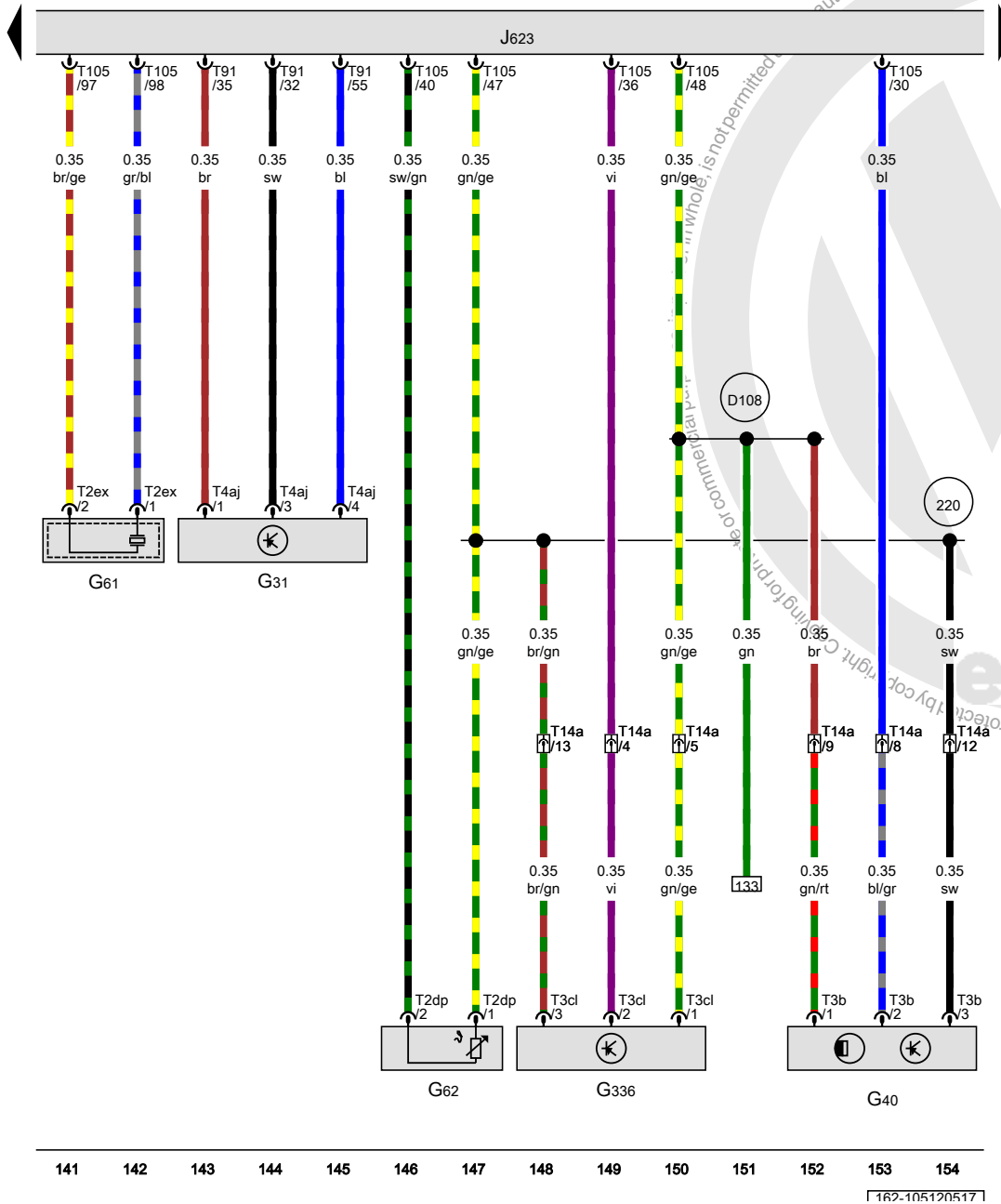
316 Sensor Ground Connection 2 (in Engine Wiring Harness)

D101 Connection 1 (in Engine Compartment Wiring Harness)

* Depending on Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
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- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Charge Air Pressure Sensor, Camshaft Position Sensor, Knock Sensor 1, Engine Coolant Temperature Sensor, Engine Control Module



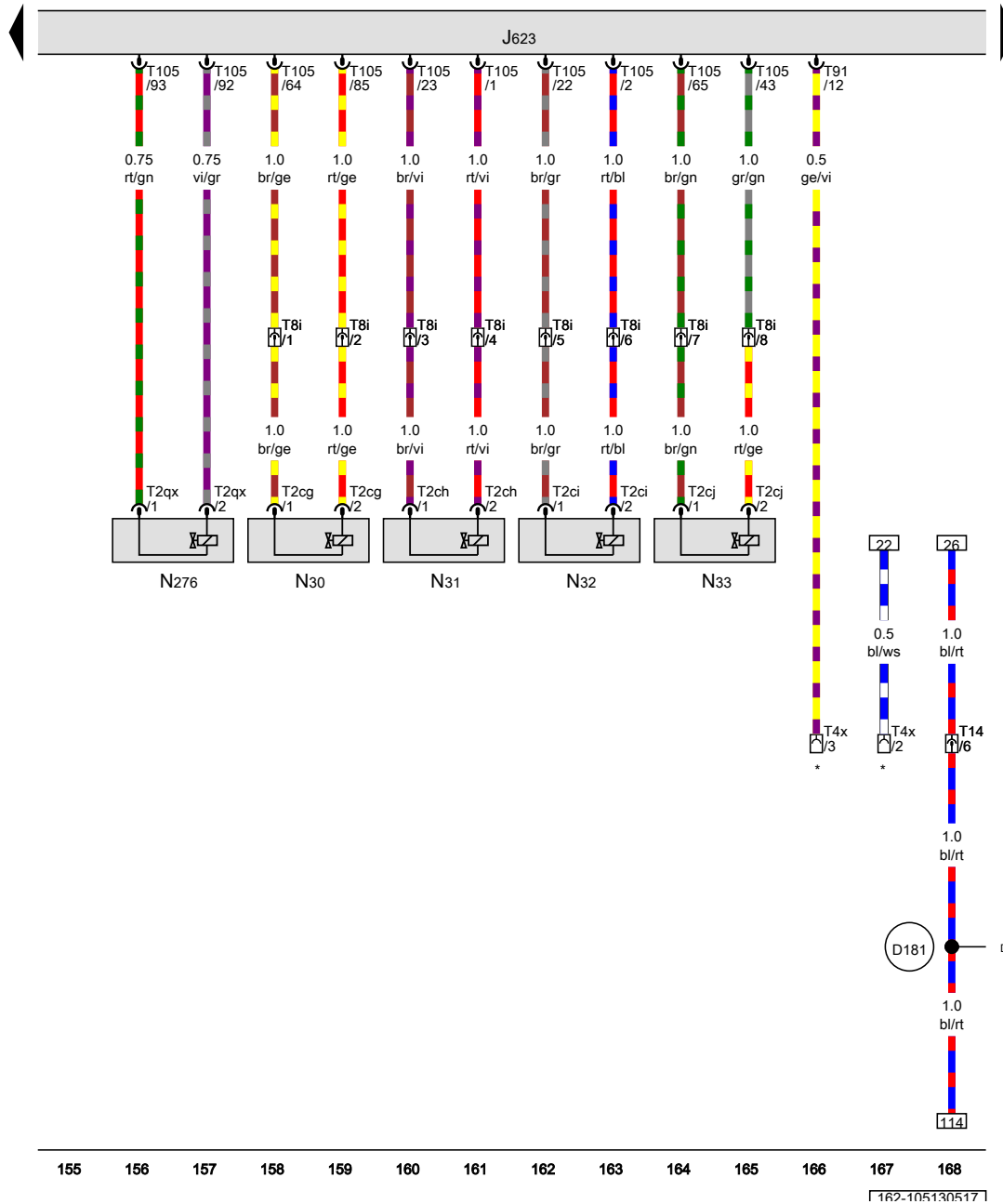
- G31 Charge Air Pressure Sensor
- G40 Camshaft Position Sensor
- G61 Knock Sensor 1
- G62 Engine Coolant Temperature Sensor
- G336 Intake Manifold Runner Position Sensor
- J623 Engine Control Module
- T2dp 2-Pin Connector
- T2ex 2-Pin Connector
- T3b 3-Pin Connector
- T3cl 3-Pin Connector
- T4aj 4-Pin Connector
- T14a 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

220 Sensor Ground Connection (in Engine Wiring Harness)

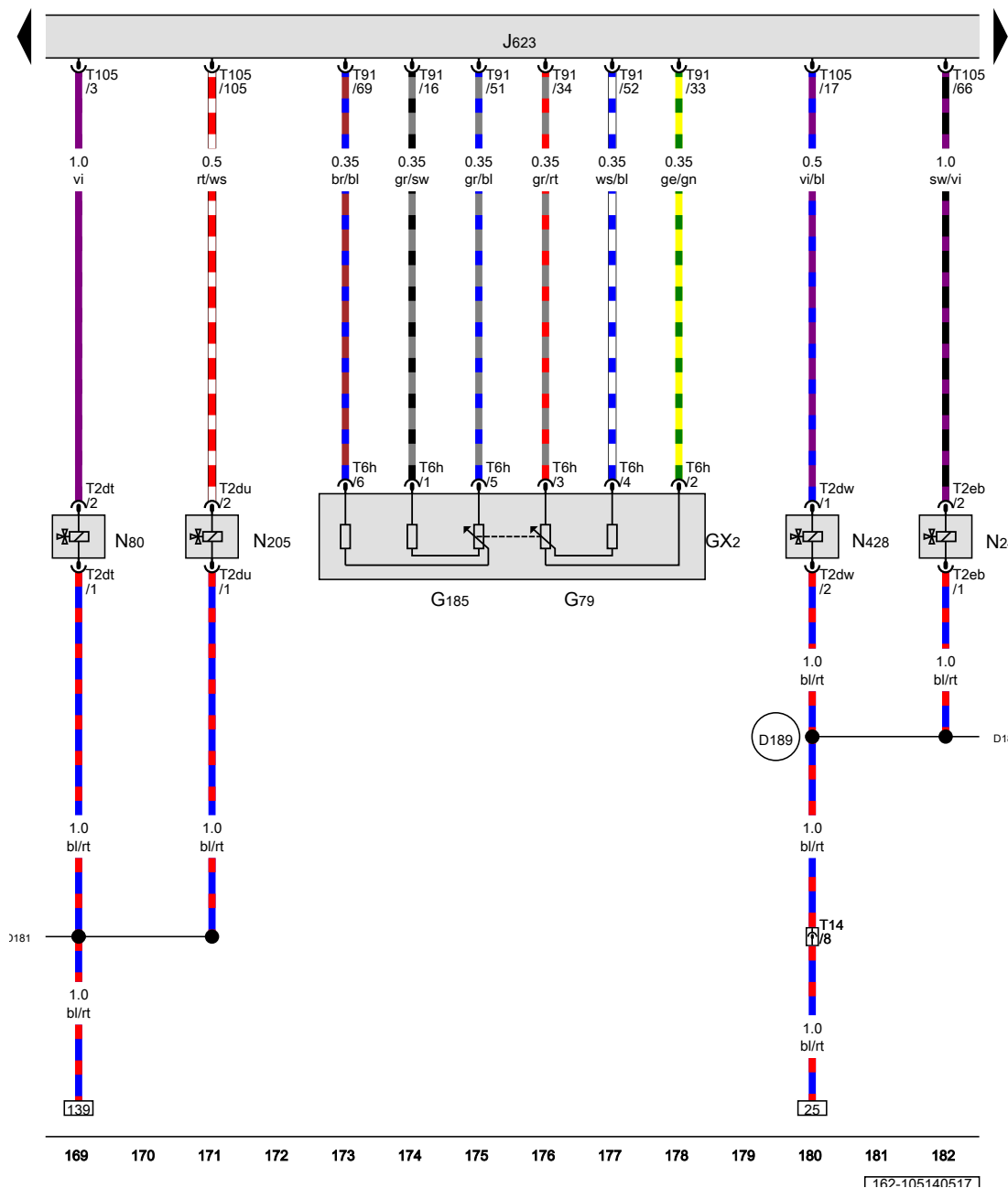
D108 Connection 6 (in Engine Compartment Wiring Harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Engine Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, Fuel Pressure Regulator Valve



- J623 Engine Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N276 Fuel Pressure Regulator Valve
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2qx 2-Pin Connector
- T4x 4-Pin Connector
- T8i 8-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector
- D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)
- * Radiator Fan Connection



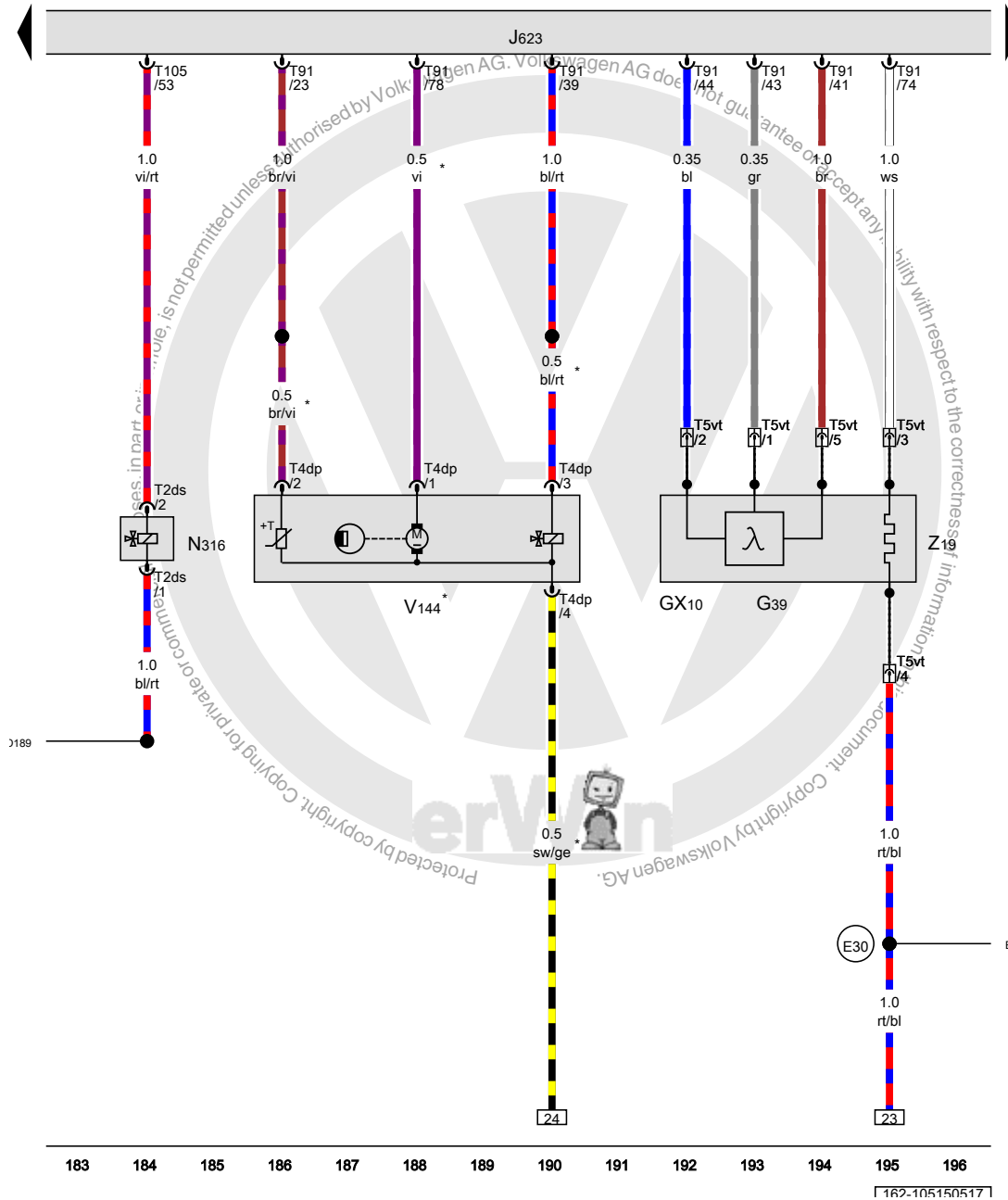
Accelerator Pedal Module, Accelerator Pedal Position Sensor 2, Engine Control Module, EVAP Canister Purge Regulator Valve 1, Camshaft Adjustment Valve 1, Turbocharger Recirculation Valve, Oil Pressure Regulation Valve

- GX2 Accelerator Pedal Module
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine Control Module
- N80 EVAP Canister Purge Regulator Valve 1
- N205 Camshaft Adjustment Valve 1
- N249 Turbocharger Recirculation Valve
- N428 Oil Pressure Regulation Valve
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dw 2-Pin Connector
- T2eb 2-Pin Connector
- T6h 6-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)

D189 Connection 87A (in Engine Pre-Wiring Harness)

- ws = white
- sw = black
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- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Oxygen Sensor 1 Before Catalytic Converter, Engine Control Module, Intake Manifold Runner Control Valve, Leak Detection Pump, Oxygen Sensor Heater

- GX10 Oxygen Sensor 1 Before Catalytic Converter
- G39 Heated Oxygen Sensor
- J623 Engine Control Module
- N316 Intake Manifold Runner Control Valve
- T2ds 2-Pin Connector
- T4dp 4-Pin Connector
- T5vt 5-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector
- V144 Leak Detection Pump
- Z19 Oxygen Sensor Heater

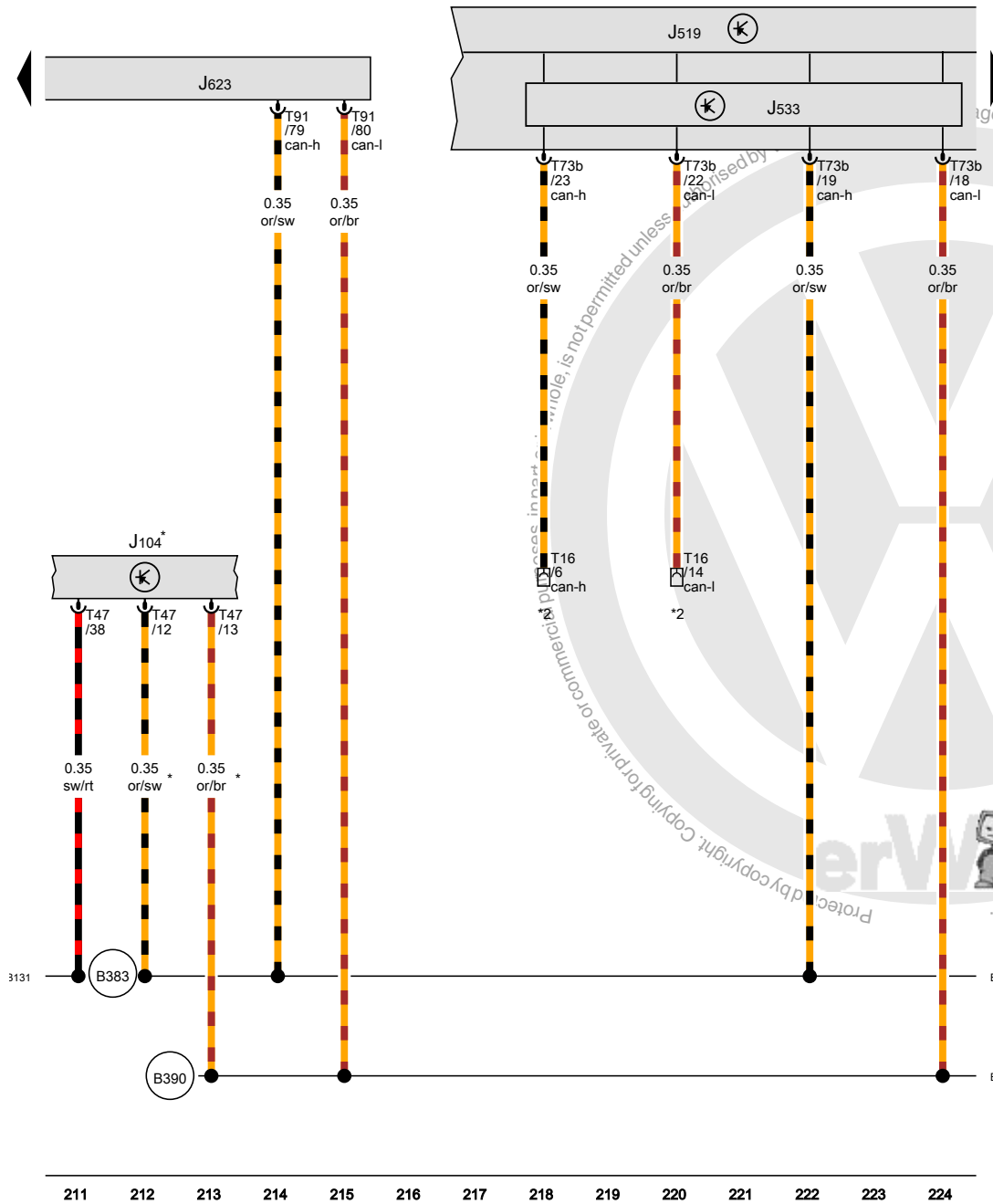
(D189) Connection 87A (in Engine Pre-Wiring Harness)

(E30) Connection 87A (in Engine Wiring Harness)

* Depending on Equipment

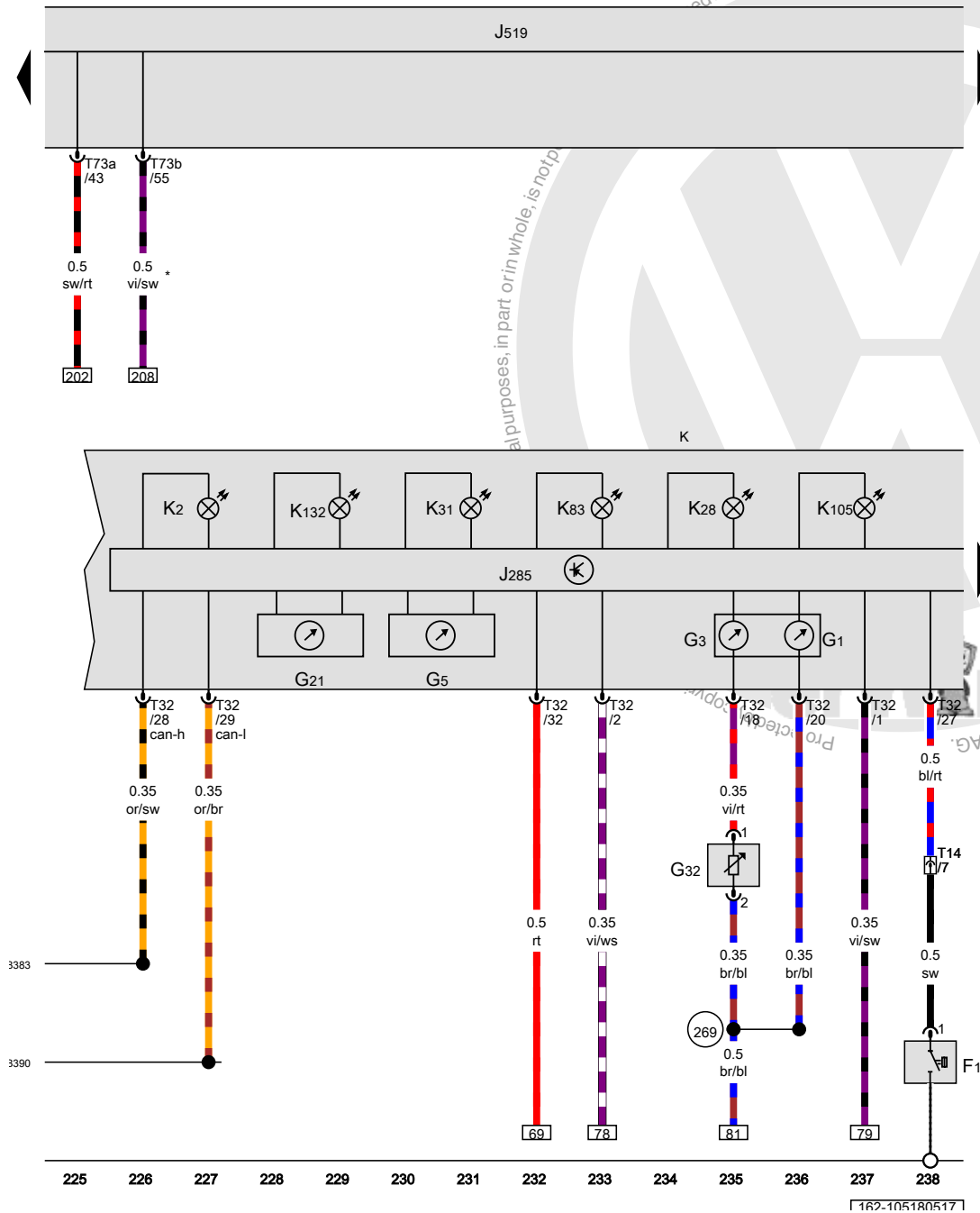
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Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Engine Control Module

- J104 ABS Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine Control Module
- T16 16-Pin Connector
- T47 47-Pin Connector
- T73b 73-Pin Connector
- T91 91-Pin Connector
- B131 Connection 54 (in Interior Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)
- *2 Diagnostic Connector



Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Generator Indicator Lamp, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K2 Generator Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Not for USA

Oil Level Thermal Sensor, Instrument Cluster Control Module, Vehicle Electrical System Control Module

- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K3 Oil Pressure Indicator Lamp
- T3x 3-Pin Connector
- T6z 6-Pin Connector, Near the Left Headlamp
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

132 Ground Connection 3 (in Engine Compartment Wiring Harness)

367 Ground Connection 2 (in Main Wiring Harness)

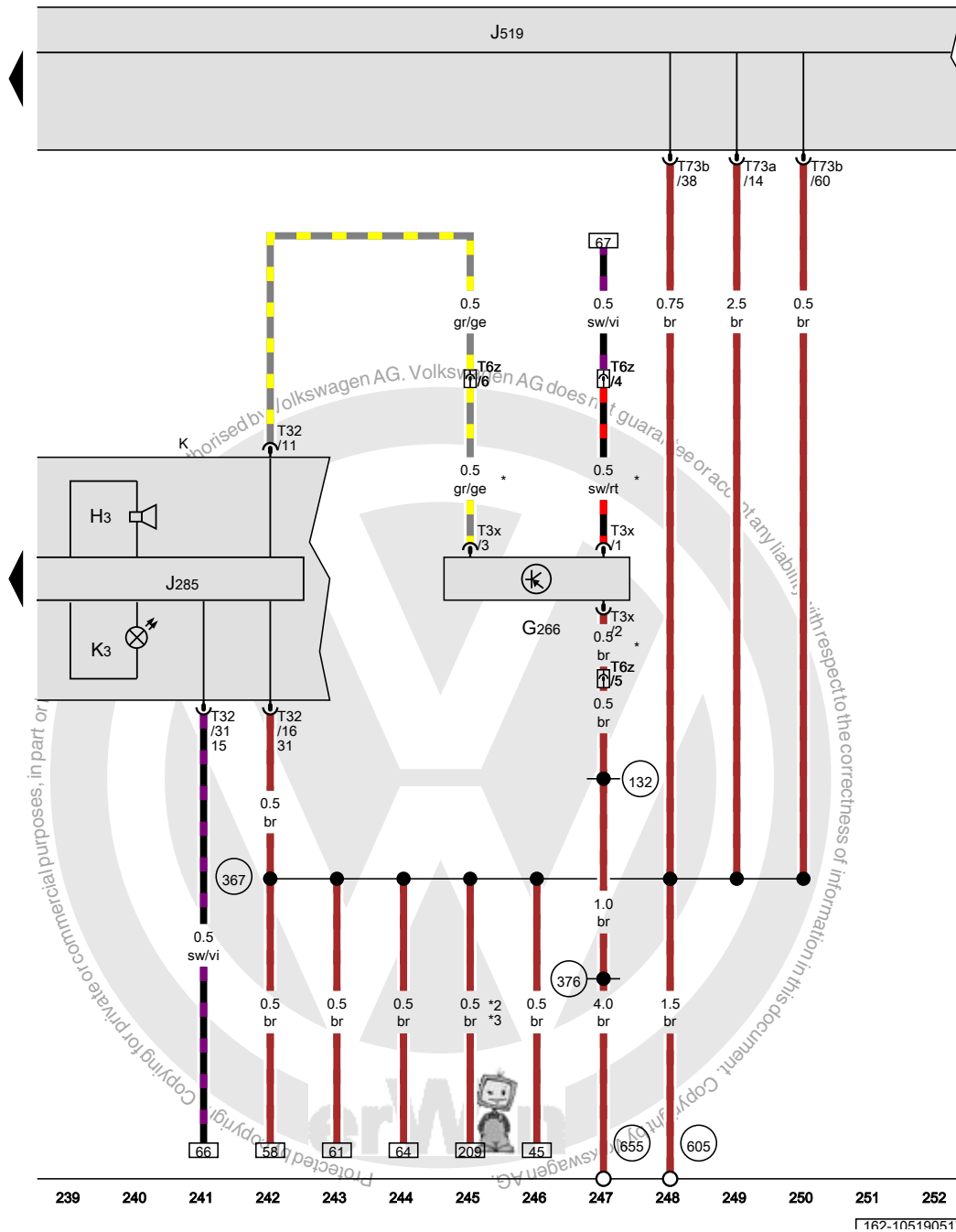
376 Ground Connection 11 (in Main Wiring Harness)

605 Ground Connection on Upper Steering Column

655 Ground Connection on Left Headlamp

- * For Vehicles with Flexible Service Interval Display
- *2 For Vehicles with a Manual Transmission
- *3 Not for USA

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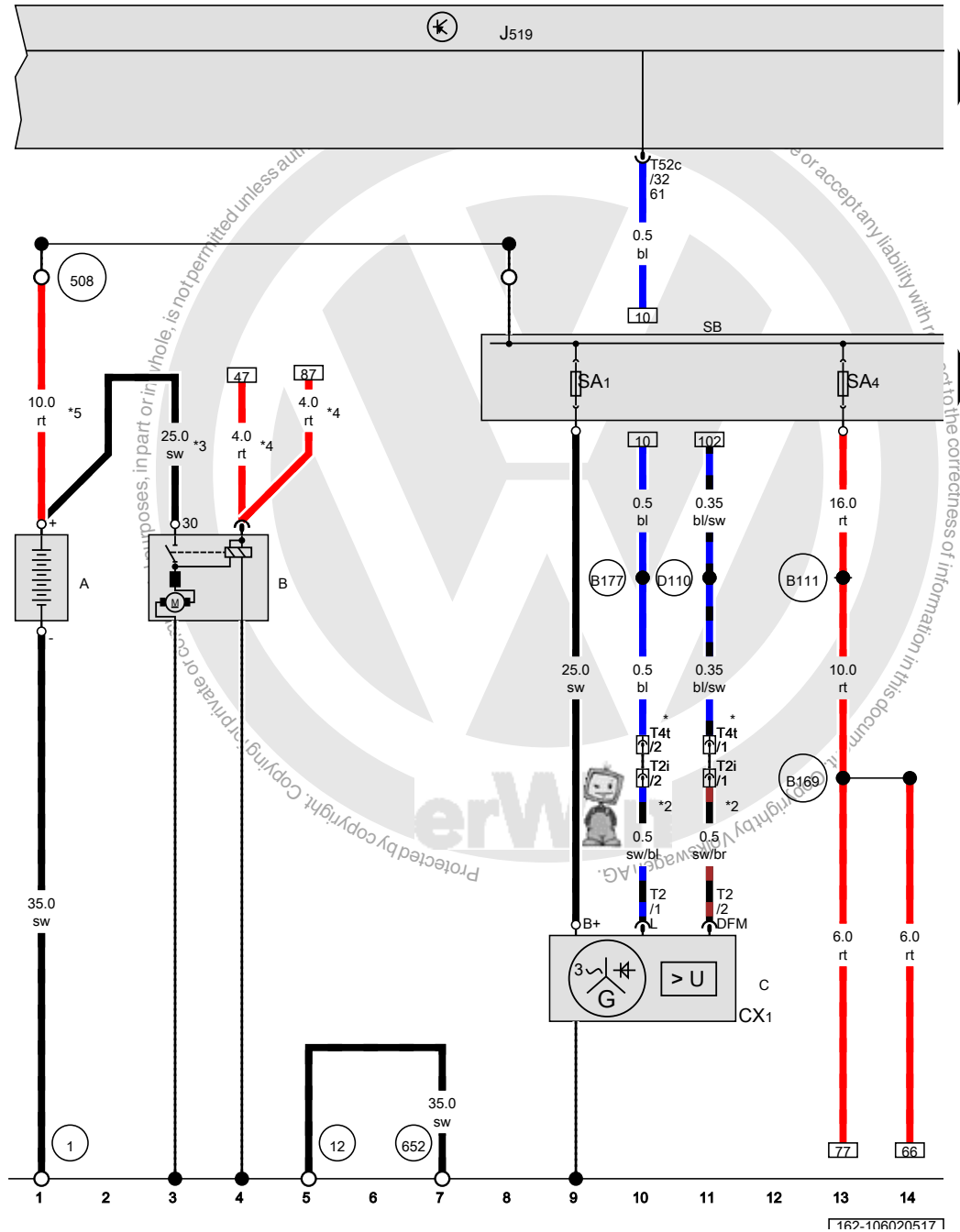


2.0L Gasoline Engine , CPLA

From December 2012



Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse Panel B



- A Battery
- B Starter
- C Generator
- CX1 Generator with Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T52c 52-Pin Connector
- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)
- D110 Connection 8 (in Engine Compartment Wiring Harness)
- * For Vehicles with A/C System
- *2 For Vehicles Without an A/C System
- *3 35.0 Diameter Possible
- *4 Depending on Equipment
- *5 16.0 Diameter Possible

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

**Motronic Engine Control Module Power Supply Relay,
Vehicle Electrical System Control Module, Fuse Panel B,
Fuse 14 (On Fuse Panel B)**

- J271 Motronic Engine Control Module Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB6 Fuse 6 (On Fuse Panel B)
- SB9 Fuse 9 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T4x 4-Pin Connector

B350 Positive Connection 1 (87a) (in Main Wiring Harness)

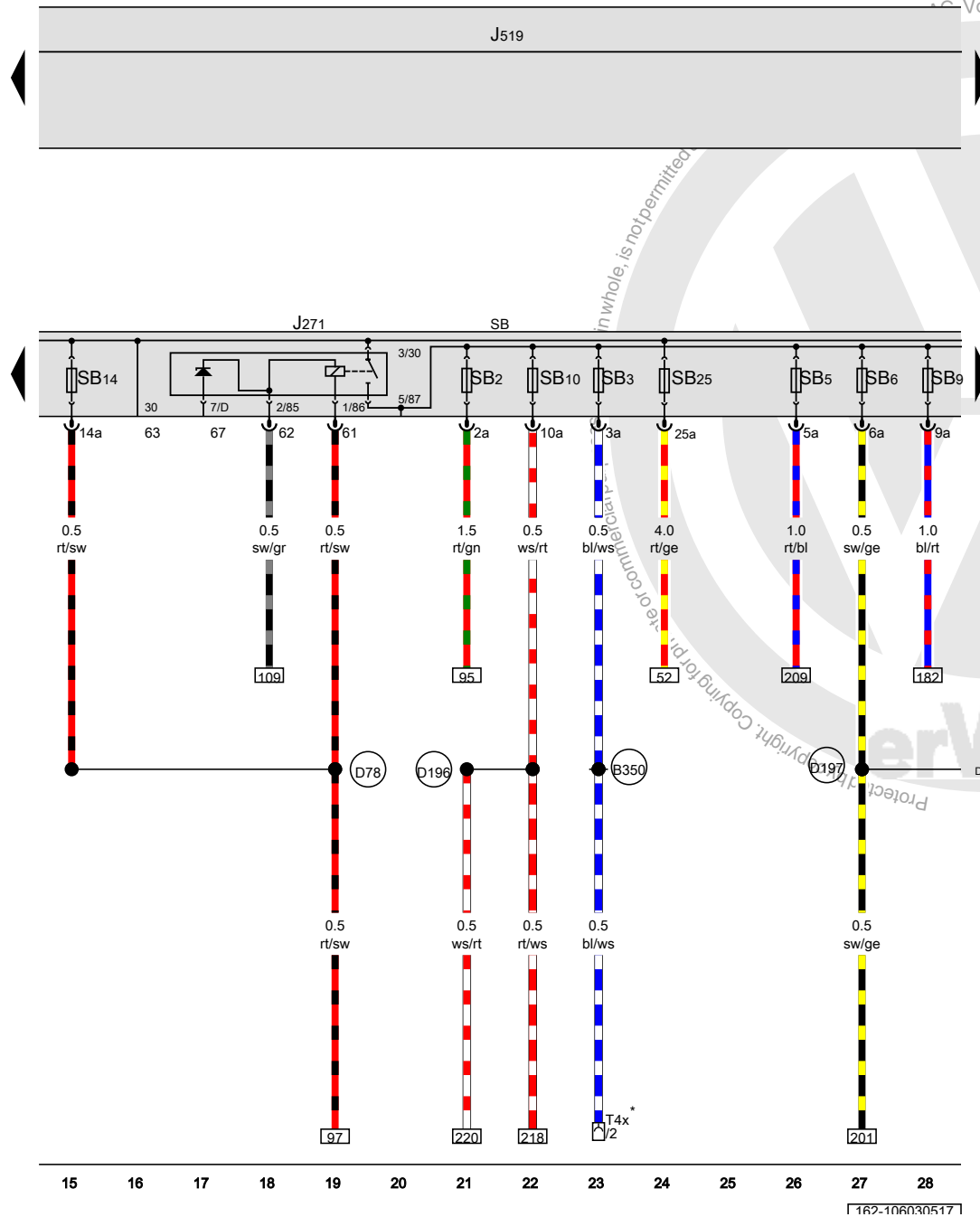
D78 Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)

D196 Connection 87A (in Engine Pre-Wiring Harness) 2

D197 Connection 5 (87A) (in Engine Compartment Wiring Harness)

* Radiator Fan Connection

ws = white
sw = black
ro = red
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gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink



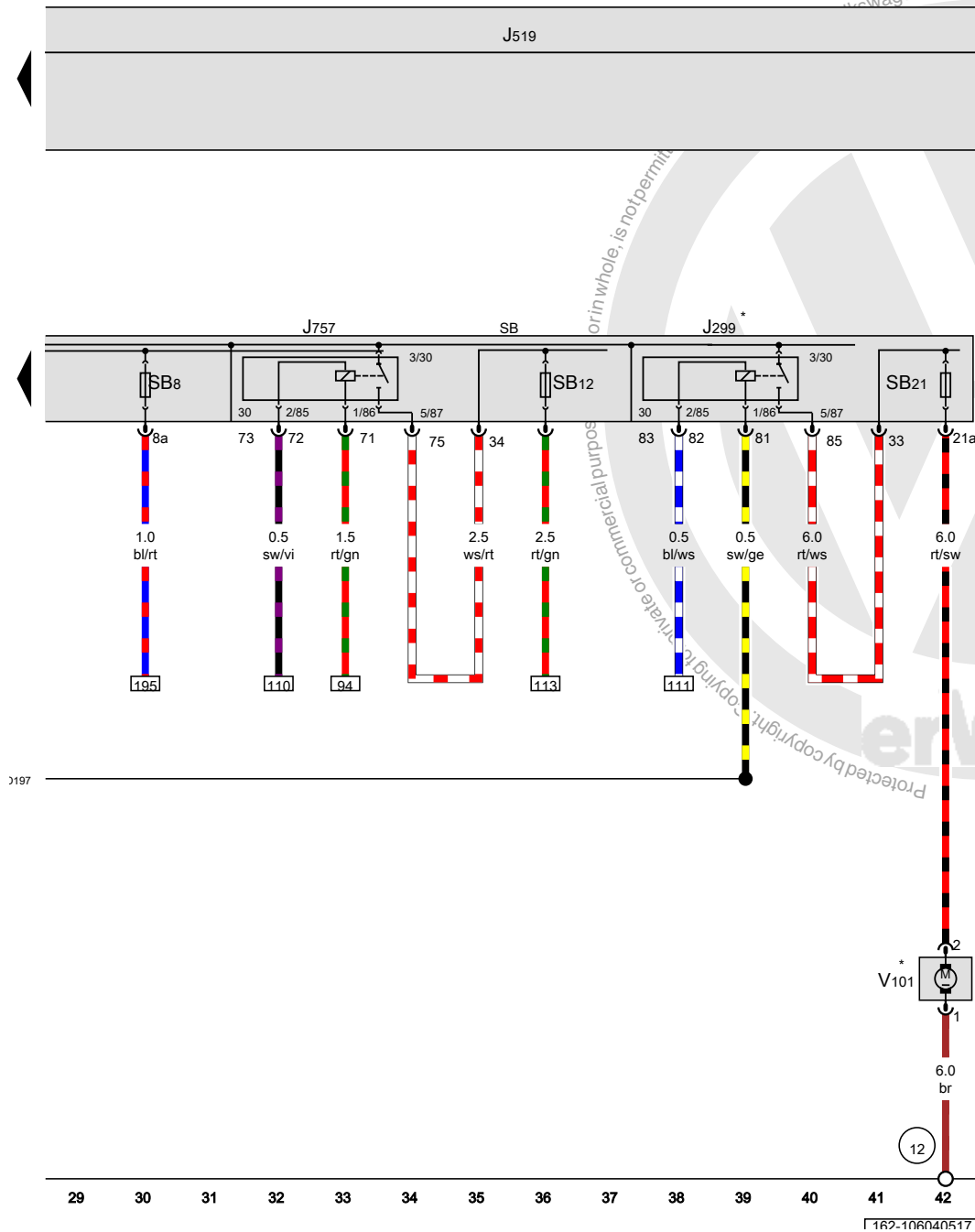
Secondary Air Injection Pump Relay, Vehicle Electrical System Control Module, Engine Component Power Supply Relay, Fuse Panel B, Secondary Air Injection Pump Motor

- J299 Secondary Air Injection Pump Relay
- J519 Vehicle Electrical System Control Module
- J757 Engine Component Power Supply Relay
- SB Fuse Panel B
- SB8 Fuse 8 (On Fuse Panel B)
- SB12 Fuse 12 (On Fuse Panel B)
- SB21 Fuse 21 (On Fuse Panel B)
- V101 Secondary Air Injection Pump Motor

12 Ground Connection in Engine Compartment, Left

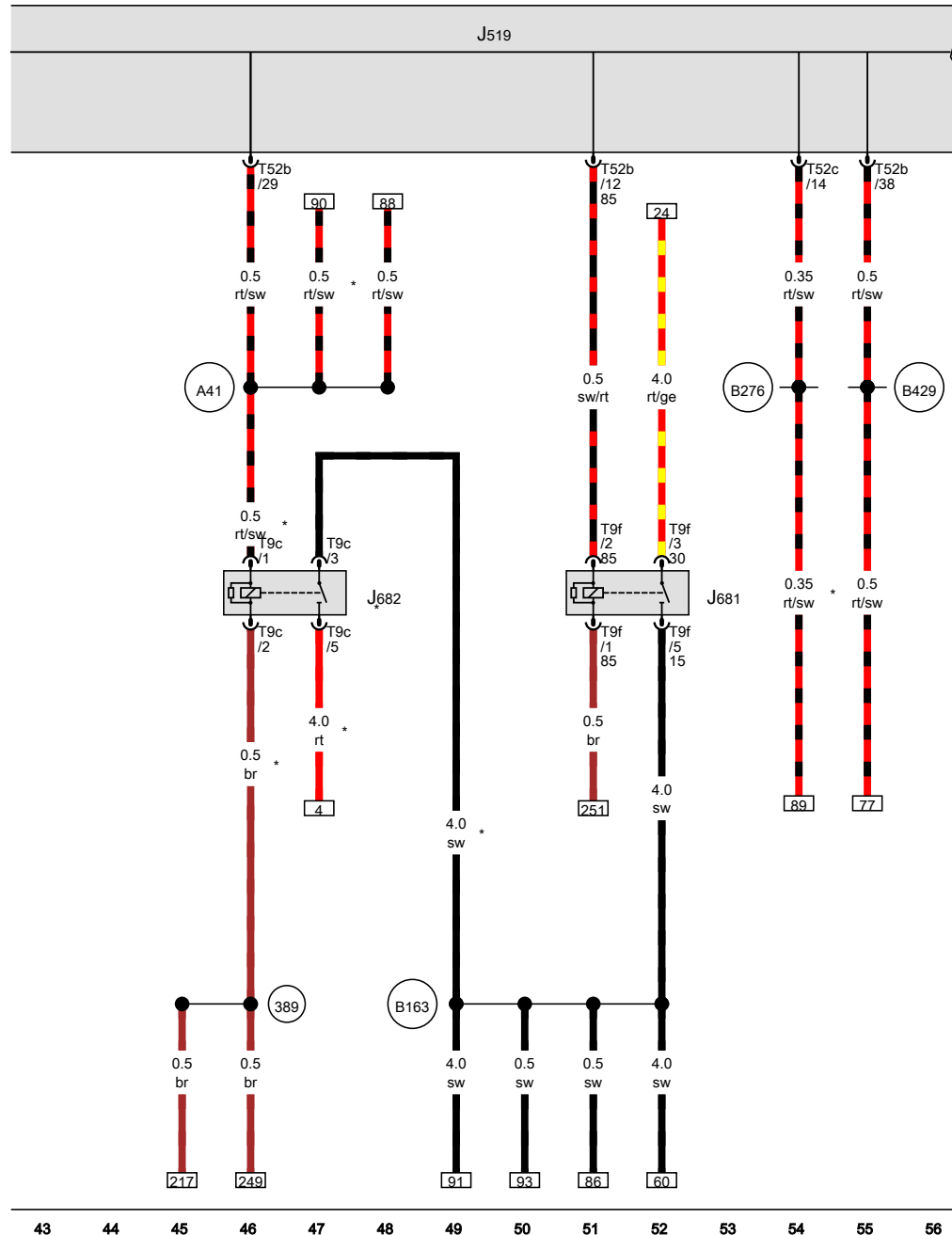
D197 Connection 5 (87A) (in Engine Compartment Wiring Harness)

* For USA Only



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Vehicle Electrical System Control Module, Terminal 15
Power Supply Relay 2, Terminal 50 Power Supply Relay



- J519 Vehicle Electrical System Control Module
- J681 Terminal 15 Power Supply Relay 2
- J682 Terminal 50 Power Supply Relay
- T9c 9-Pin Connector
- T9f 9-Pin Connector
- T52b 52-Pin Connector
- T52c 52-Pin Connector

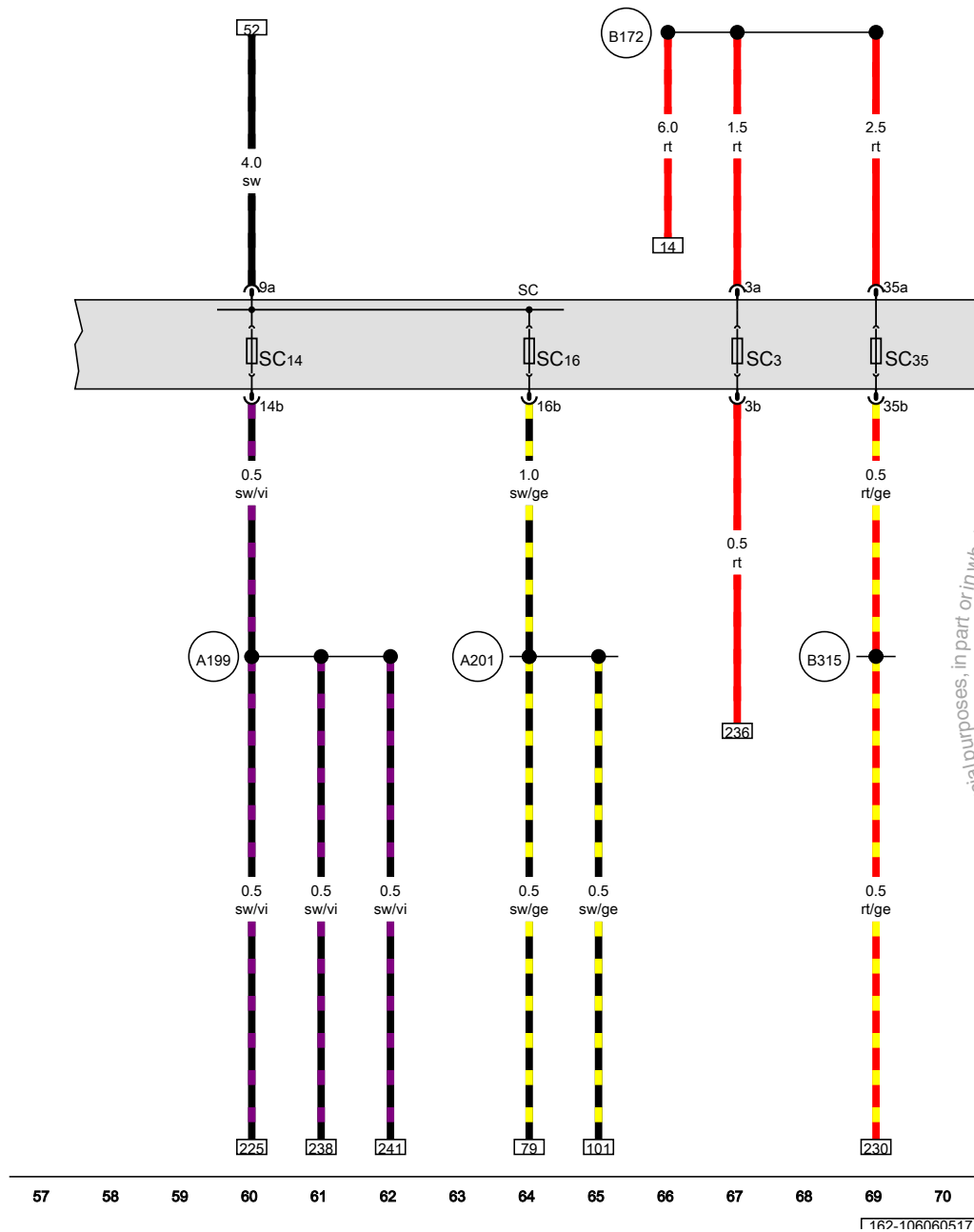
- (389) Ground Connection 24 (in Main Wiring Harness)
- (A41) Positive Connection (50) (in Instrument Panel Wiring Harness)
- (B163) Positive Connection 1 (15) (in Interior Wiring Harness)
- (B276) Positive Connection (50) (in Main Wiring Harness)
- (B429) Fuel Pump Relay Connection (in Main Wiring Harness)
- * Depending on Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-106050517

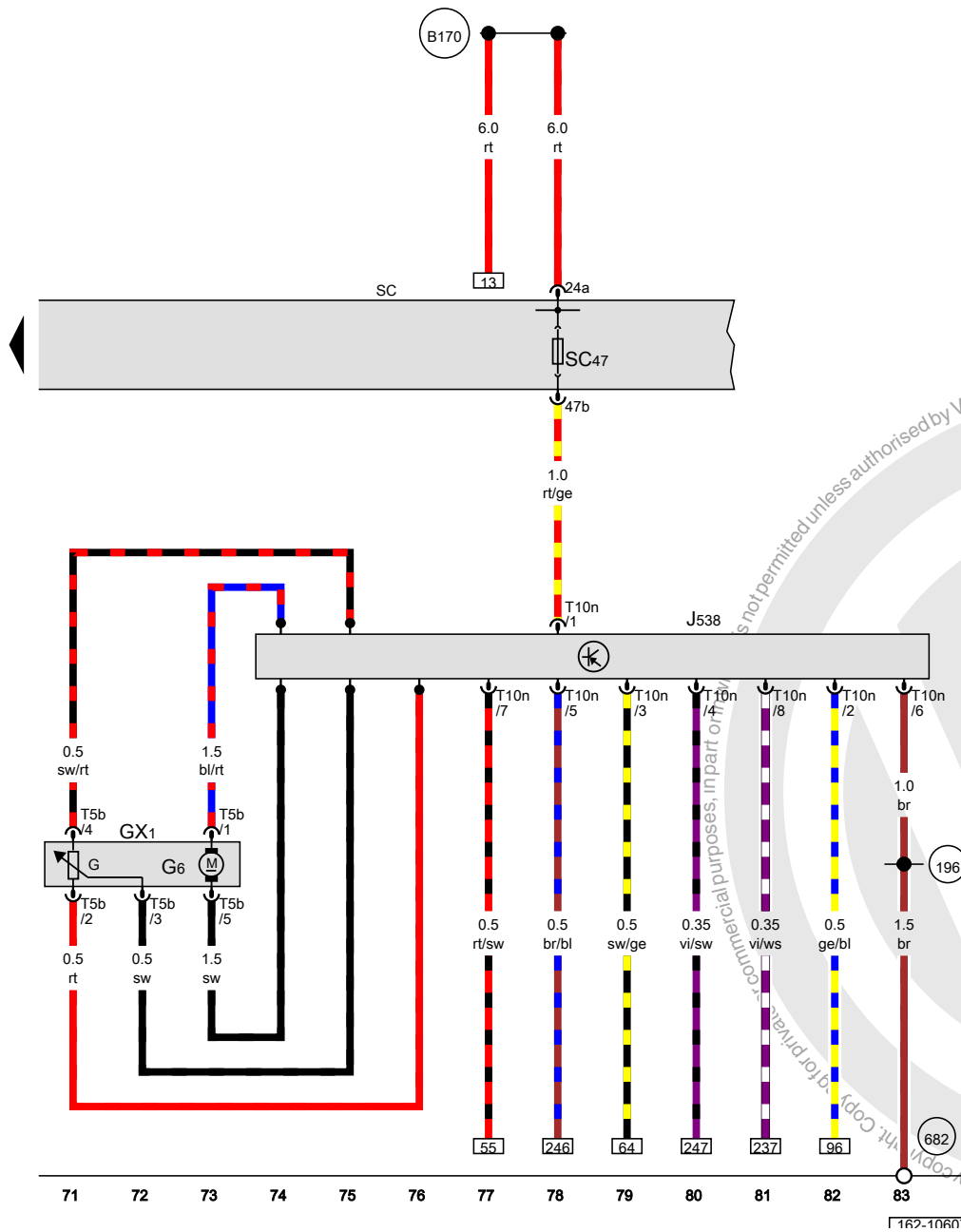
Fuse Panel C

- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- (A199) Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- (A201) Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- (B172) Positive Connection 4 (30) (in Interior Wiring Harness)
- (B315) Positive Connection 1 (30a) (in Main Wiring Harness)



| | |
|------|---------------------------|
| G | Fuel Level Sensor |
| GX1 | Fuel Delivery Unit |
| G6 | Transfer Fuel Pump |
| J538 | Fuel Pump Control Module |
| SC | Fuse Panel C |
| SC47 | Fuse 47 (On Fuse Panel C) |
| T5b | 5-Pin Connector |
| T10n | 10-Pin Connector |

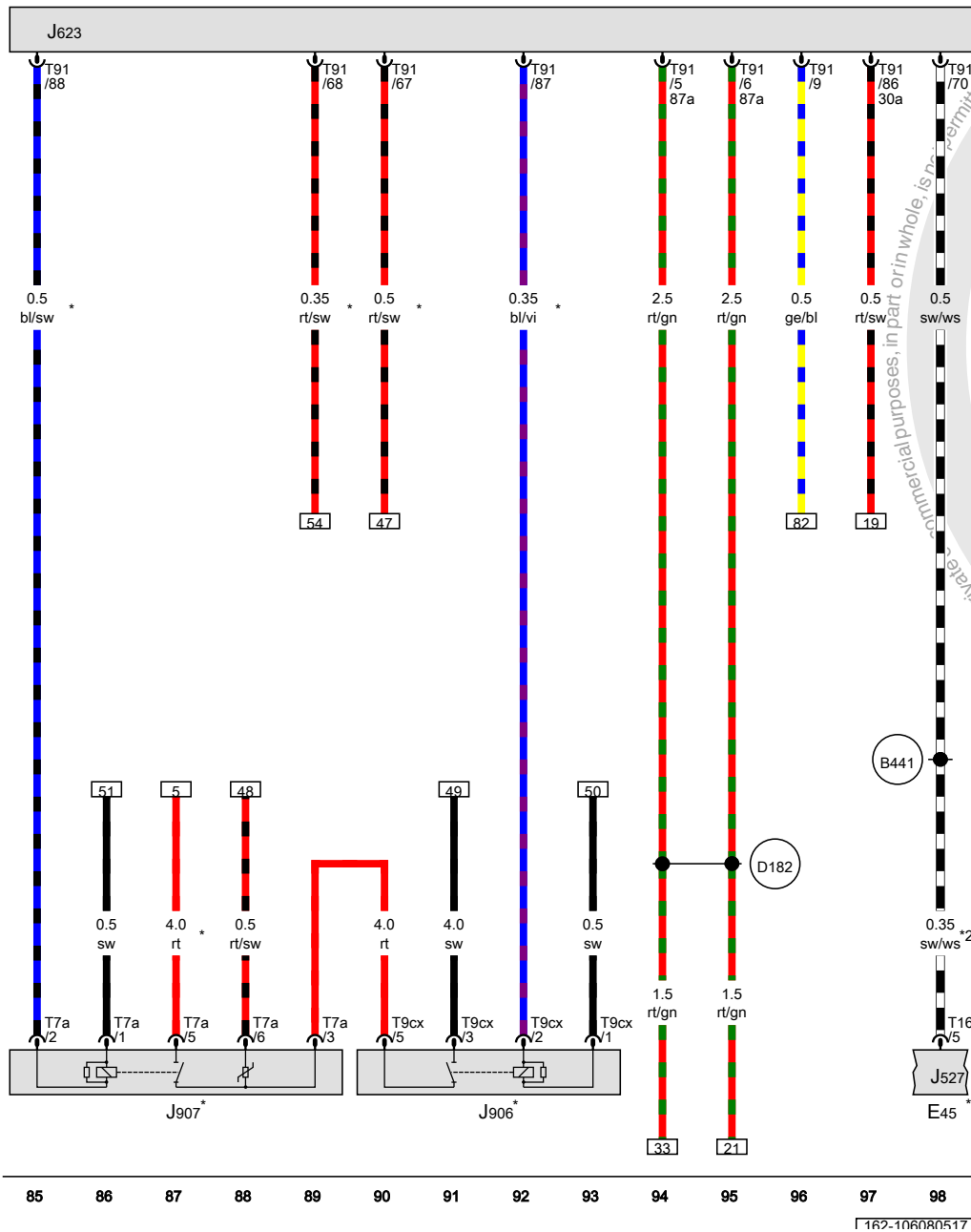
- | | |
|------|---|
| 196 | Ground Connection 3 (in Rear Wiring Harness) |
| 682 | Ground Connection 2 in Right Rear Side Panel |
| B170 | Positive Connection 2 (30) (in Interior Wiring Harness) |



| | | |
|----|---|--------|
| ws | = | white |
| sw | = | black |
| ro | = | red |
| rt | = | red |
| br | = | brown |
| gn | = | green |
| bl | = | blue |
| gr | = | grey |
| li | = | lilac |
| vi | = | lilac |
| ge | = | yellow |
| or | = | orange |
| rs | = | pink |

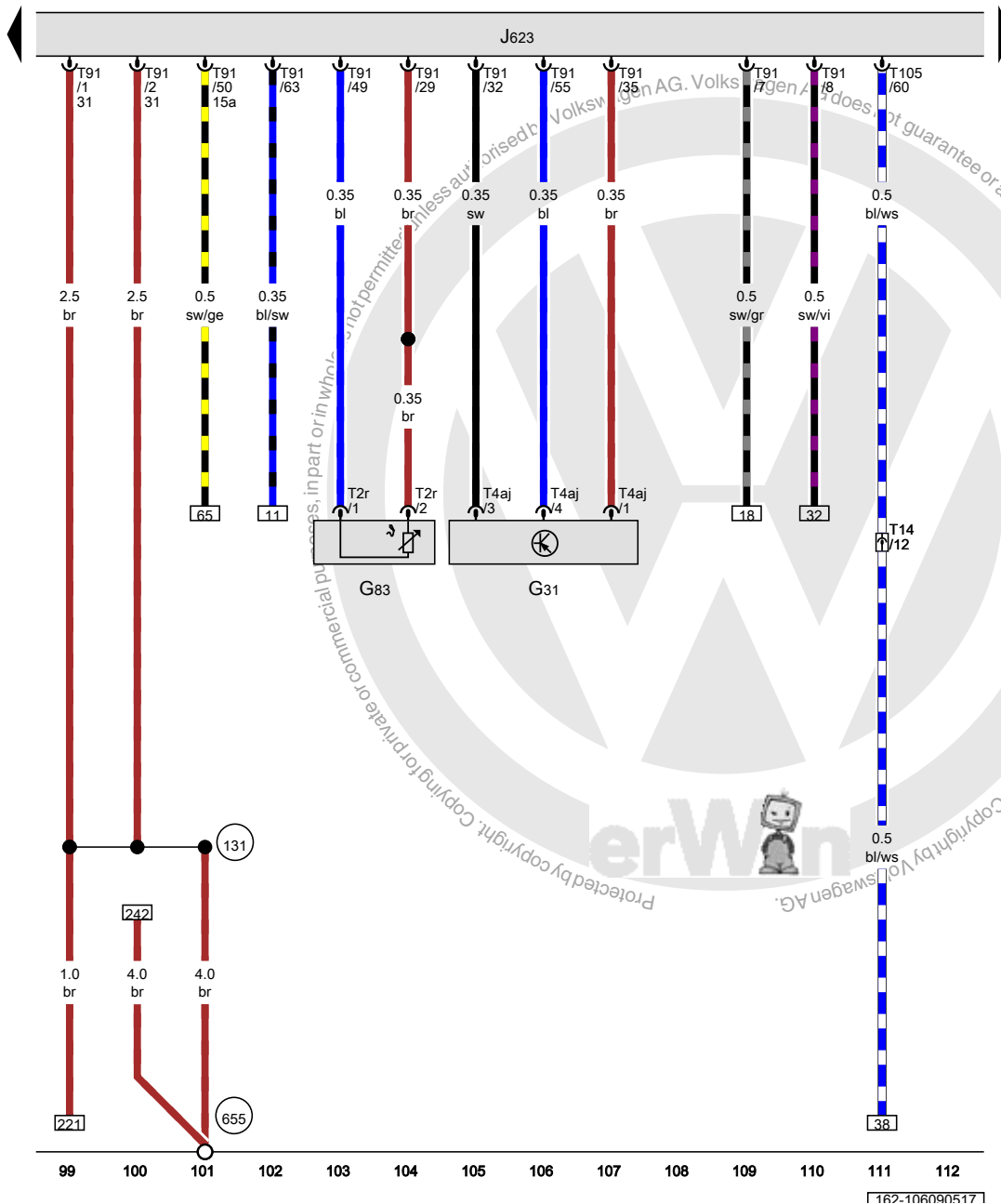
Engine Control Module

- E45 Cruise Control Switch
- J527 Steering Column Electronics Control Module
- J623 Engine Control Module
- J906 Starter Relay 1
- J907 Starter Relay 2
- T7a 7-Pin Connector
- T9cx 9-Pin Connector
- T16l 16-Pin Connector
- T91 91-Pin Connector
- B441 Cruise Control Connection (in Main Wiring Harness)
- D182 Connection 3 (87A) (in Engine Compartment Wiring Harness)
- * Depending on Equipment
- *2 For Vehicles with Cruise Control System



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Charge Air Pressure Sensor, Engine Coolant Temperature Sensor on Radiator Outlet, Engine Control Module

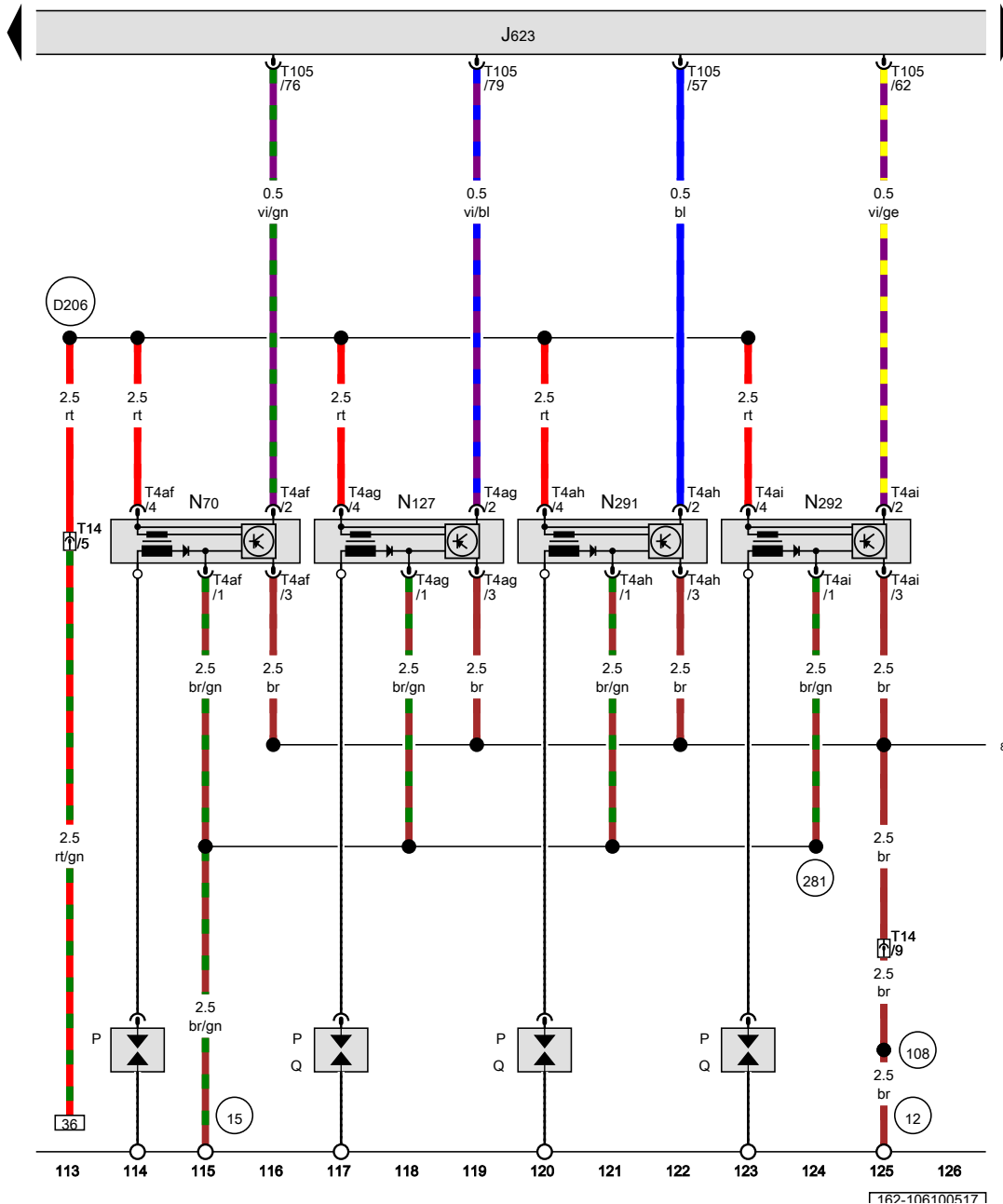


- G31 Charge Air Pressure Sensor
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- J623 Engine Control Module
- Q Spark Plugs
- T2r 2-Pin Connector
- T4aj 4-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

131 Ground Connection 2 (in Engine Compartment Wiring Harness)

655 Ground Connection on Left Headlamp

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

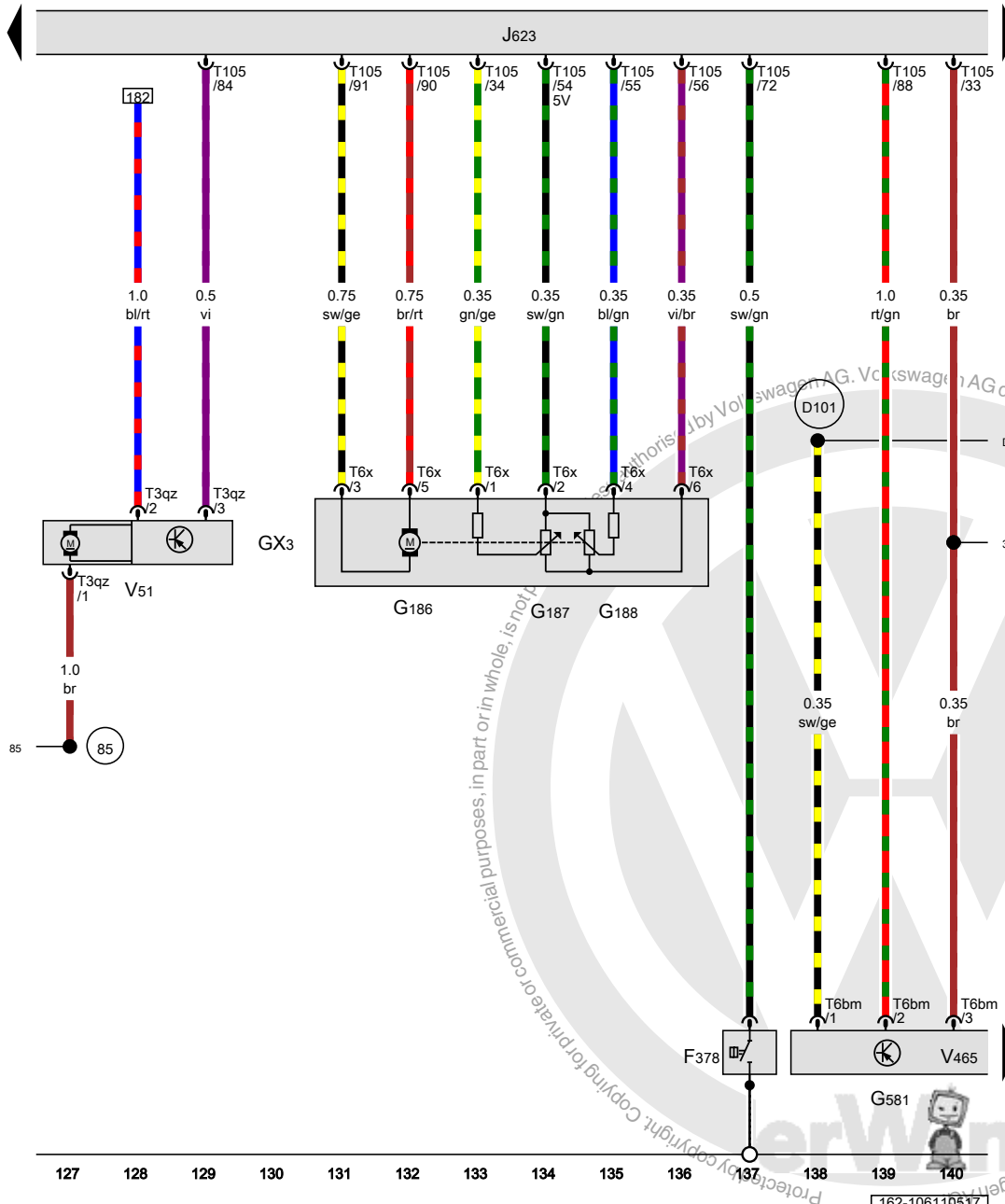


Engine Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage

- J623 Engine Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T14 14-Pin Connector
- T105 105-Pin Connector

- 12 Ground Connection in Engine Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

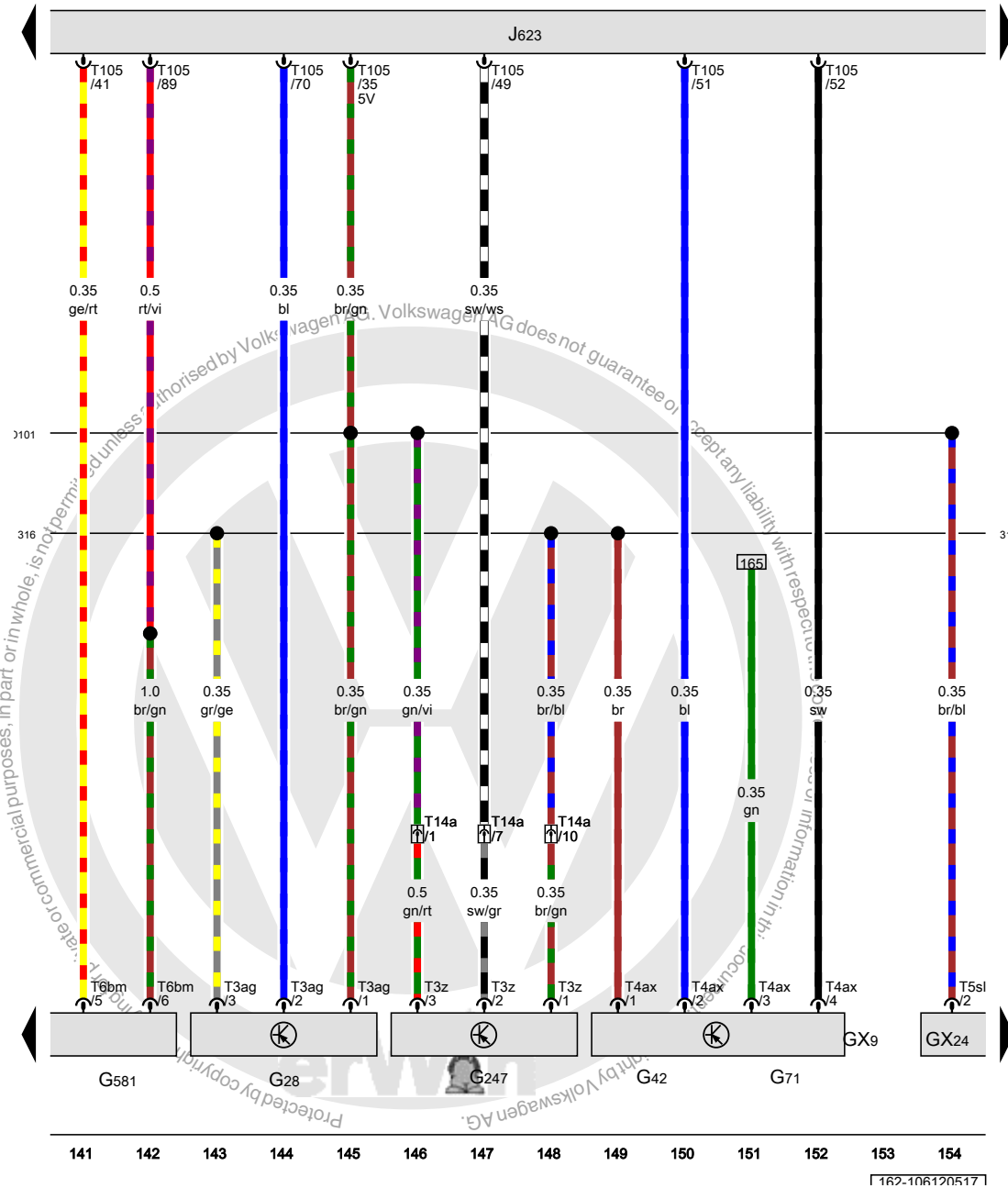


Reduced Oil Pressure Switch, EPC Throttle Drive, Charge Air Pressure Actuator Position Sensor, Engine Control Module, After-Run Coolant Pump

- F378 Reduced Oil Pressure Switch
- GX3 Throttle Valve Control Module
- G186 EPC Throttle Drive
- G187 EPC Throttle Drive Angle Sensor 1
- G188 EPC Throttle Drive Angle Sensor 2
- G581 Charge Air Pressure Actuator Position Sensor
- J623 Engine Control Module
- T3qz 3-Pin Connector
- T6bm 6-Pin Connector
- T6x 6-Pin Connector
- T105 105-Pin Connector
- V51 After-Run Coolant Pump
- V465 Charge Air Pressure Actuator

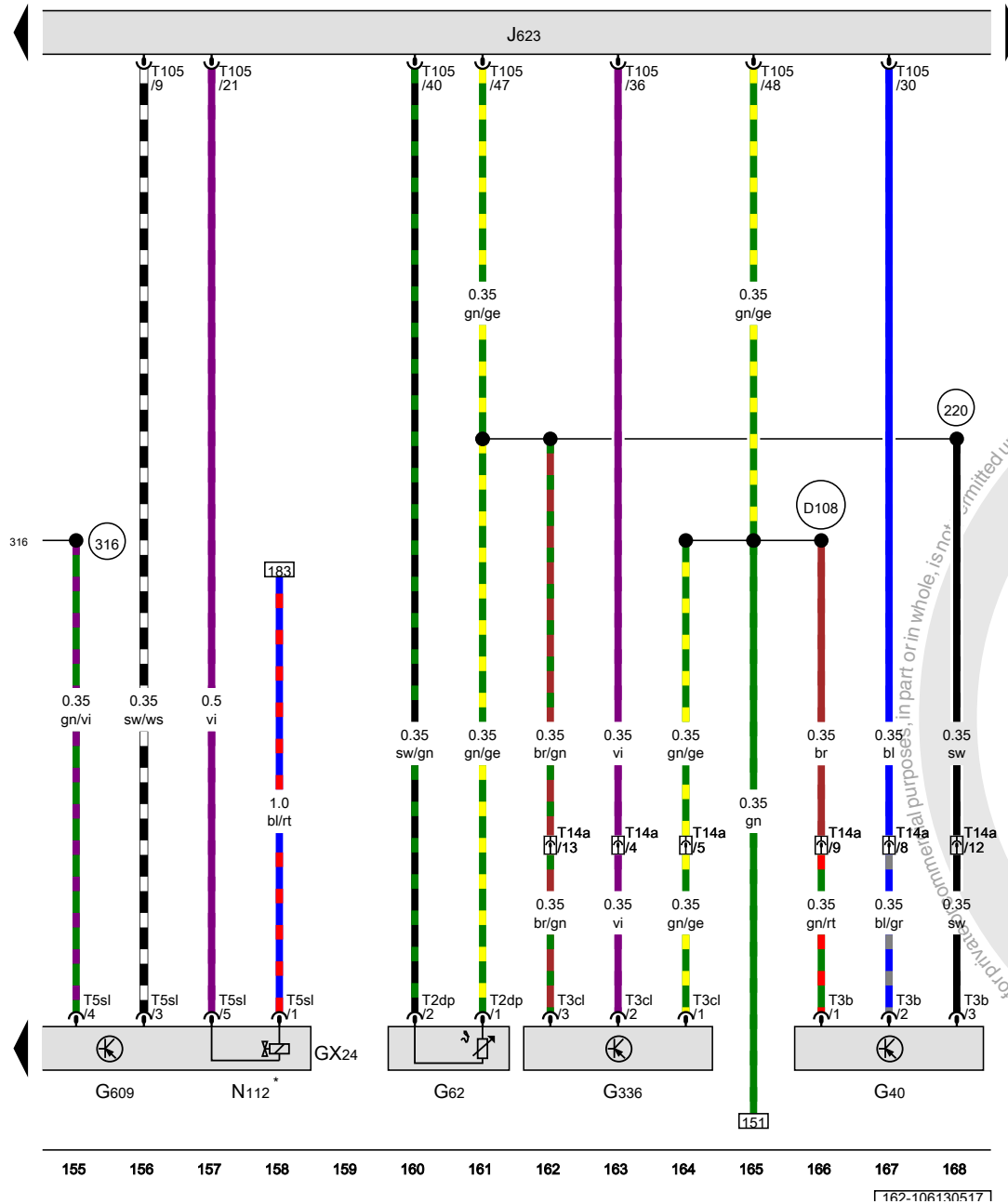
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D101 Connection 1 (in Engine Compartment Wiring Harness)

Intake Manifold Sensor, Secondary Air System, Engine Speed Sensor, Fuel Pressure Sensor, Charge Air Pressure Actuator Position Sensor, Engine Control Module



- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D101 Connection 1 (in Engine Compartment Wiring Harness)

Secondary Air System, Camshaft Position Sensor, Engine Coolant Temperature Sensor, Intake Manifold Runner Position Sensor, Secondary Air Injection Sensor 1, Engine Control Module

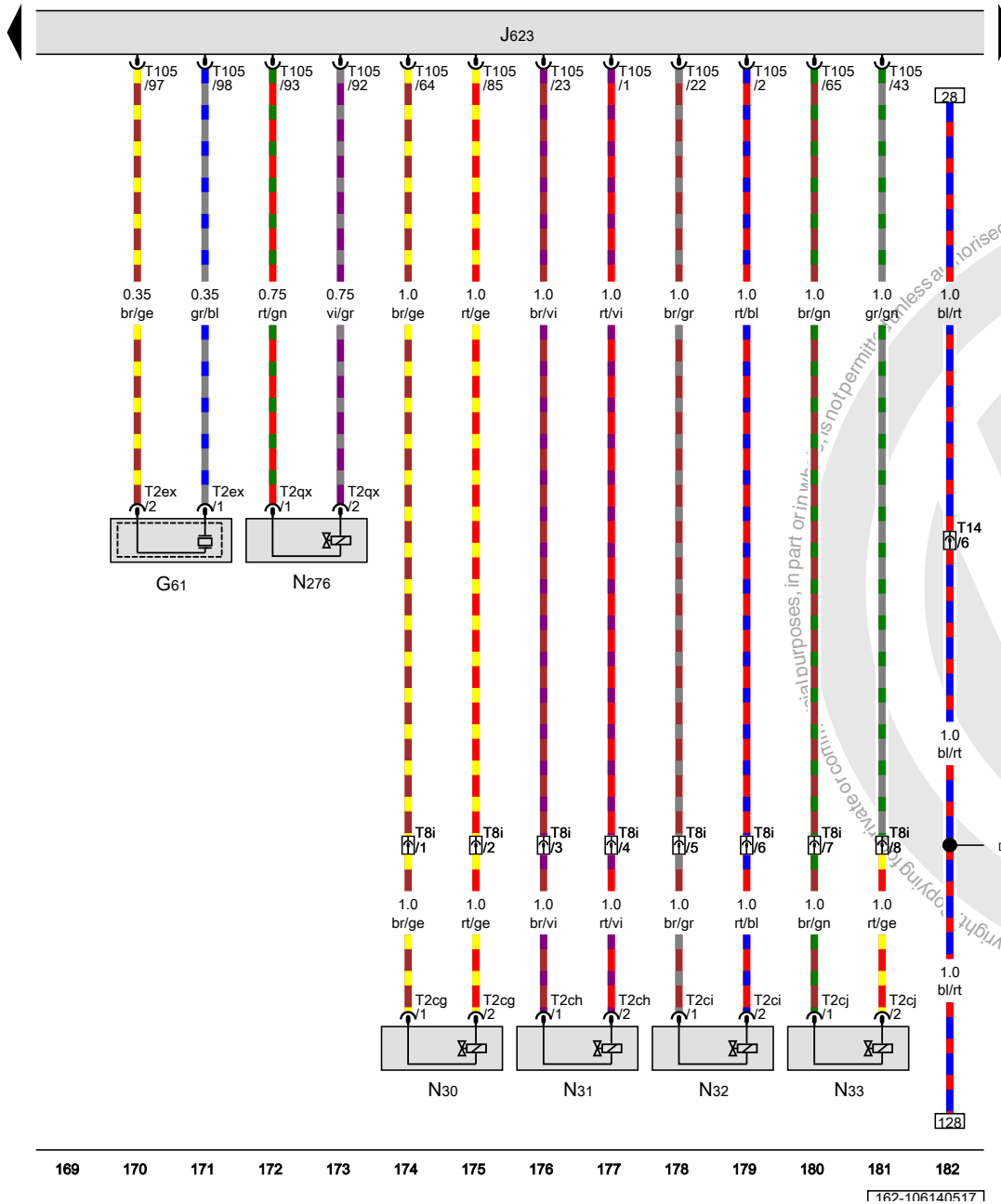


- GX24 Secondary Air System
- G40 Camshaft Position Sensor
- G62 Engine Coolant Temperature Sensor
- G336 Intake Manifold Runner Position Sensor
- G609 Secondary Air Injection Sensor 1
- J623 Engine Control Module
- N112 Secondary Air Injection Solenoid Valve
- T2dp 2-Pin Connector
- T3b 3-Pin Connector
- T3cl 3-Pin Connector
- T5sl 5-Pin Connector
- T14a 14-Pin Connector
- T105 105-Pin Connector

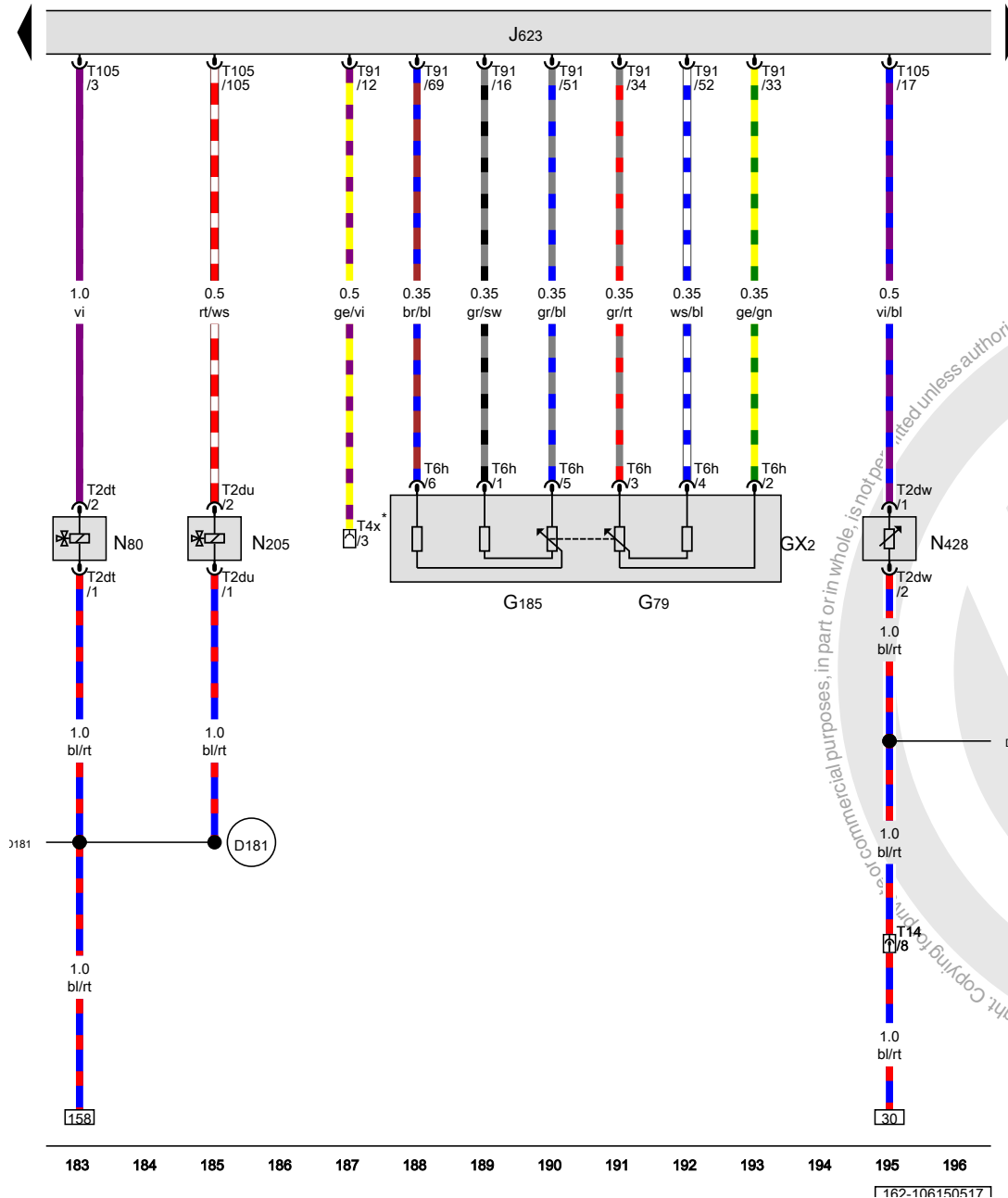
- 220 Sensor Ground Connection (in Engine Wiring Harness)
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D108 Connection 6 (in Engine Compartment Wiring Harness)
- * Depending on Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Knock Sensor 1, Engine Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, Fuel Pressure Regulator Valve



- G61 Knock Sensor 1
- J623 Engine Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N276 Fuel Pressure Regulator Valve
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2ex 2-Pin Connector
- T2qx 2-Pin Connector
- T8i 8-Pin Connector
- T14 14-Pin Connector
- T105 105-Pin Connector
- D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)



Accelerator Pedal Module, Accelerator Pedal Position Sensor, Engine Control Module, EVAP Canister Purge Regulator Valve 1, Camshaft Adjustment Valve 1, Oil Pressure Regulation Valve

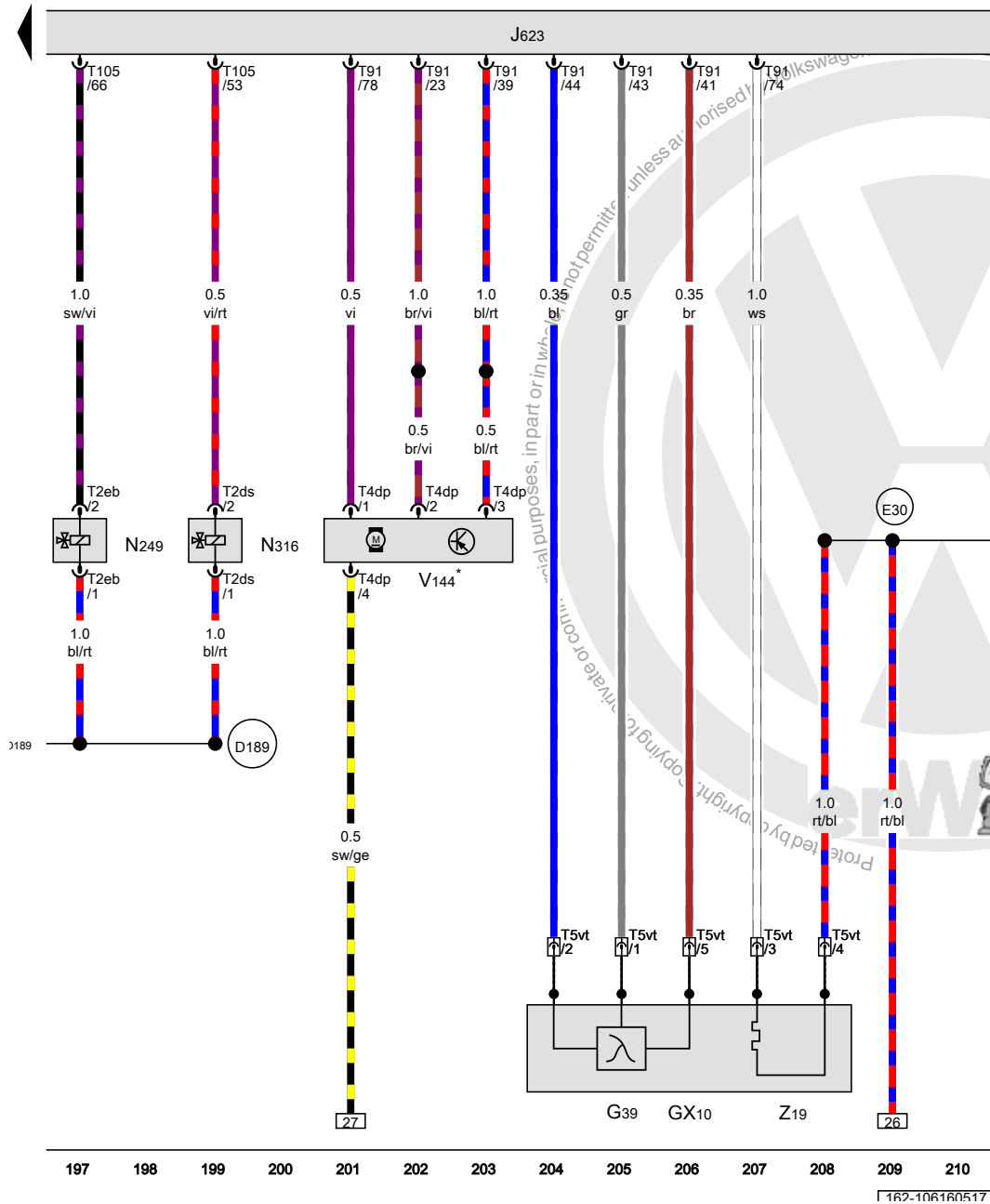
- GX2 Accelerator Pedal Module
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine Control Module
- N80 EVAP Canister Purge Regulator Valve 1
- N205 Camshaft Adjustment Valve 1
- N428 Oil Pressure Regulation Valve
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dw 2-Pin Connector
- T4x 4-Pin Connector
- T6h 6-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)

D189 Connection 87A (in Engine Pre-Wiring Harness)

* Radiator Fan Connection

- ws = white
- sw = black
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Oxygen Sensor 1 Before Catalytic Converter, Engine Control Module, Turbocharger Recirculation Valve, Intake Manifold Runner Control Valve, Leak Detection Pump, Oxygen Sensor Heater

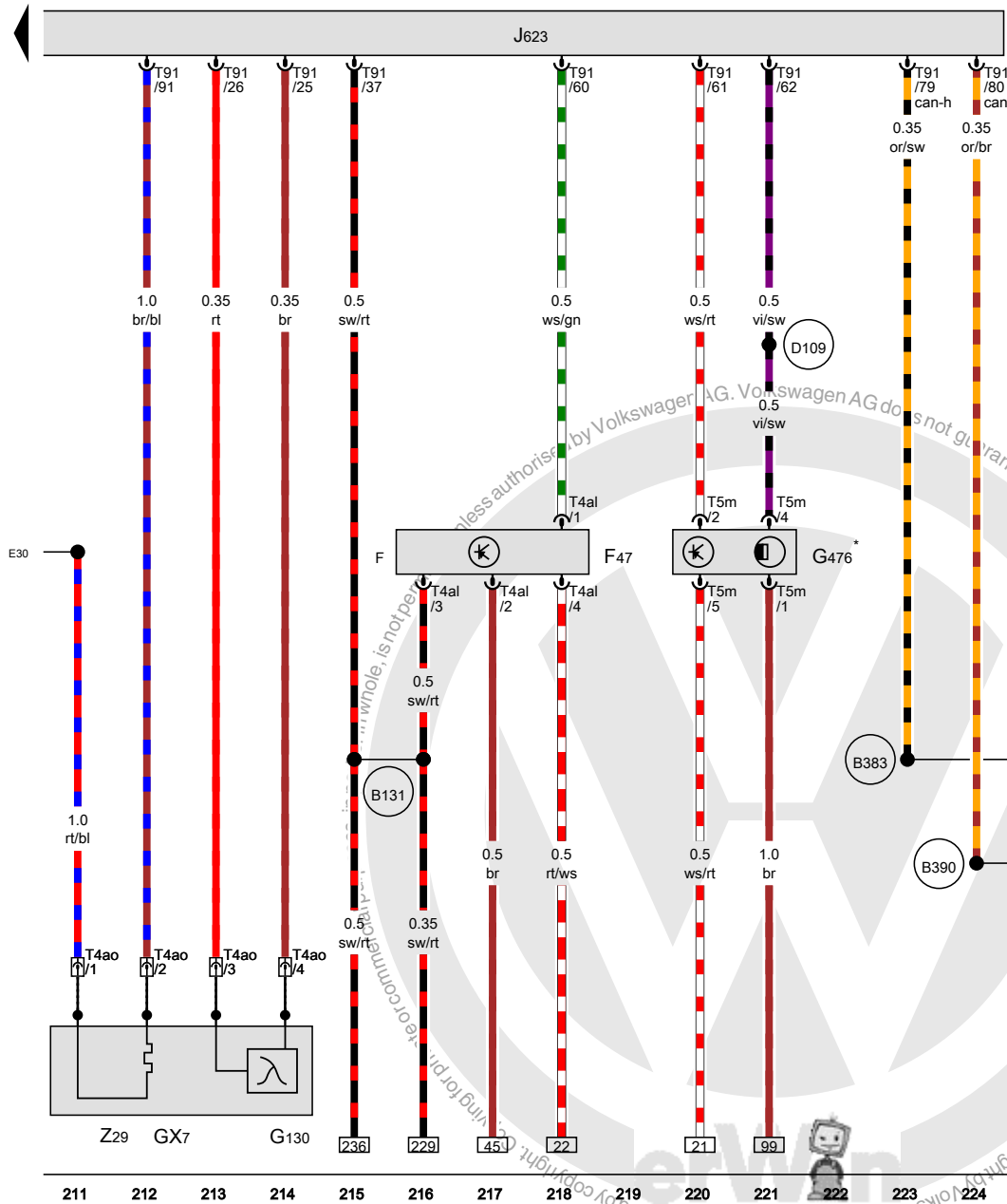
- GX10 Oxygen Sensor 1 Before Catalytic Converter
- G39 Heated Oxygen Sensor
- J623 Engine Control Module
- N249 Turbocharger Recirculation Valve
- N316 Intake Manifold Runner Control Valve
- T2ds 2-Pin Connector
- T2eb 2-Pin Connector
- T4dp 4-Pin Connector
- T5vt 5-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector
- V144 Leak Detection Pump
- Z19 Oxygen Sensor Heater

D189 Connection 87A (in Engine Pre-Wiring Harness)

E30 Connection 87A (in Engine Wiring Harness)

* Depending on Equipment

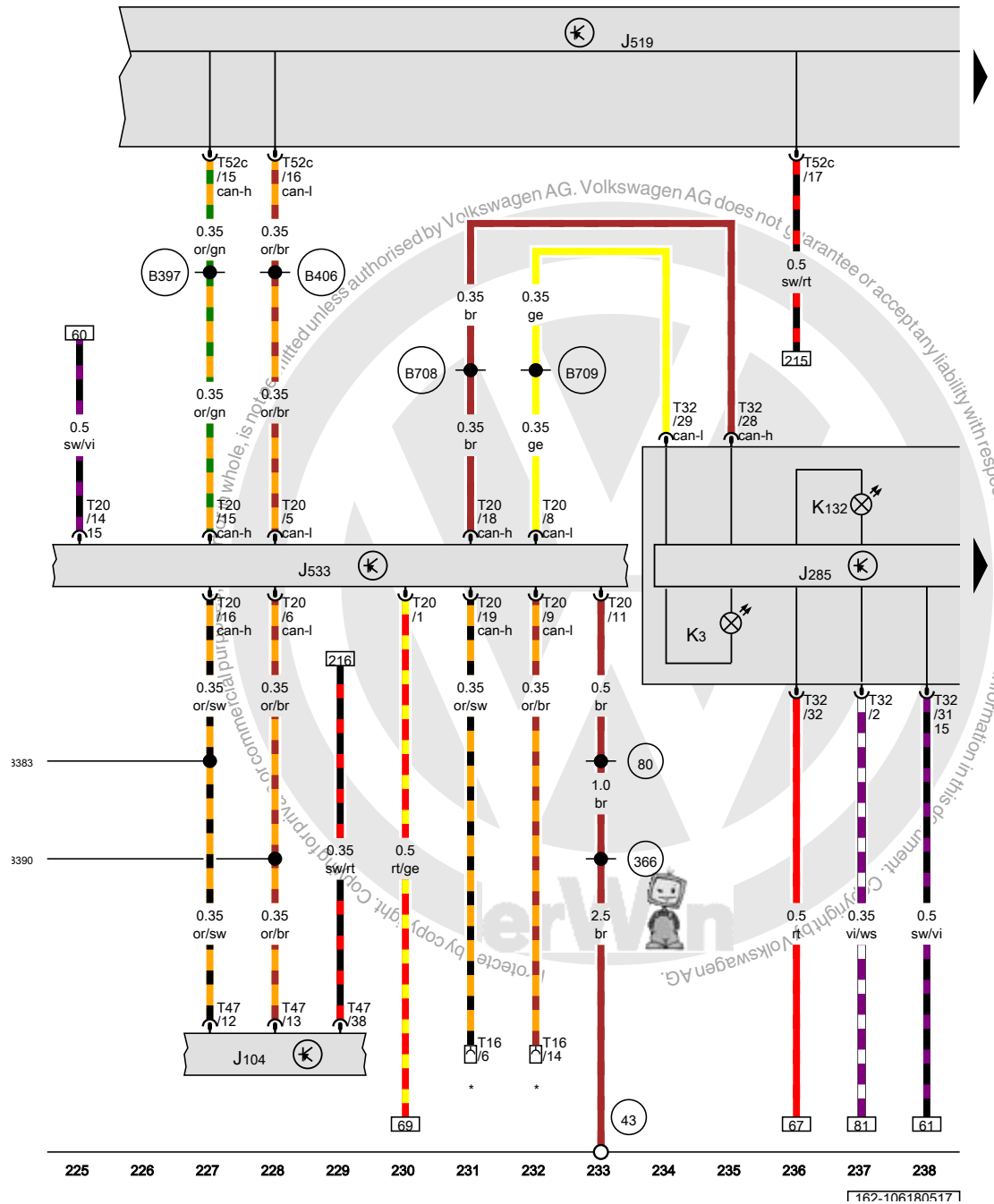
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
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- vi = lilac
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- rs = pink



Brake Lamp Switch, Brake Pedal Switch, Oxygen Sensor 1 After Catalytic Converter, Oxygen Sensor After Catalytic Converter, Clutch Position Sensor, Engine Control Module

- F Brake Lamp Switch
- F47 Brake Pedal Switch
- GX7 Oxygen Sensor 1 After Catalytic Converter
- G130 Oxygen Sensor After Catalytic Converter
- G476 Clutch Position Sensor
- J623 Engine Control Module
- T4al 4-Pin Connector
- T4ao 4-Pin Connector
- T5m 5-Pin Connector
- T91 91-Pin Connector
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter

- B131 Connection 54 (in Interior Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- D109 Connection 7 (in Engine Compartment Wiring Harness)
- E30 Connection 87A (in Engine Wiring Harness)
- * For Vehicles with a Manual Transmission



Instrument Cluster Control Module, Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Electronic Power Control Malfunction Indicator Lamp

- J104 ABS Control Module
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- K3 Oil Pressure Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T16 16-Pin Connector, Near the Lower Left A-Pillar
- T20 20-Pin Connector
- T32 32-Pin Connector
- T47 47-Pin Connector
- T52c 52-Pin Connector

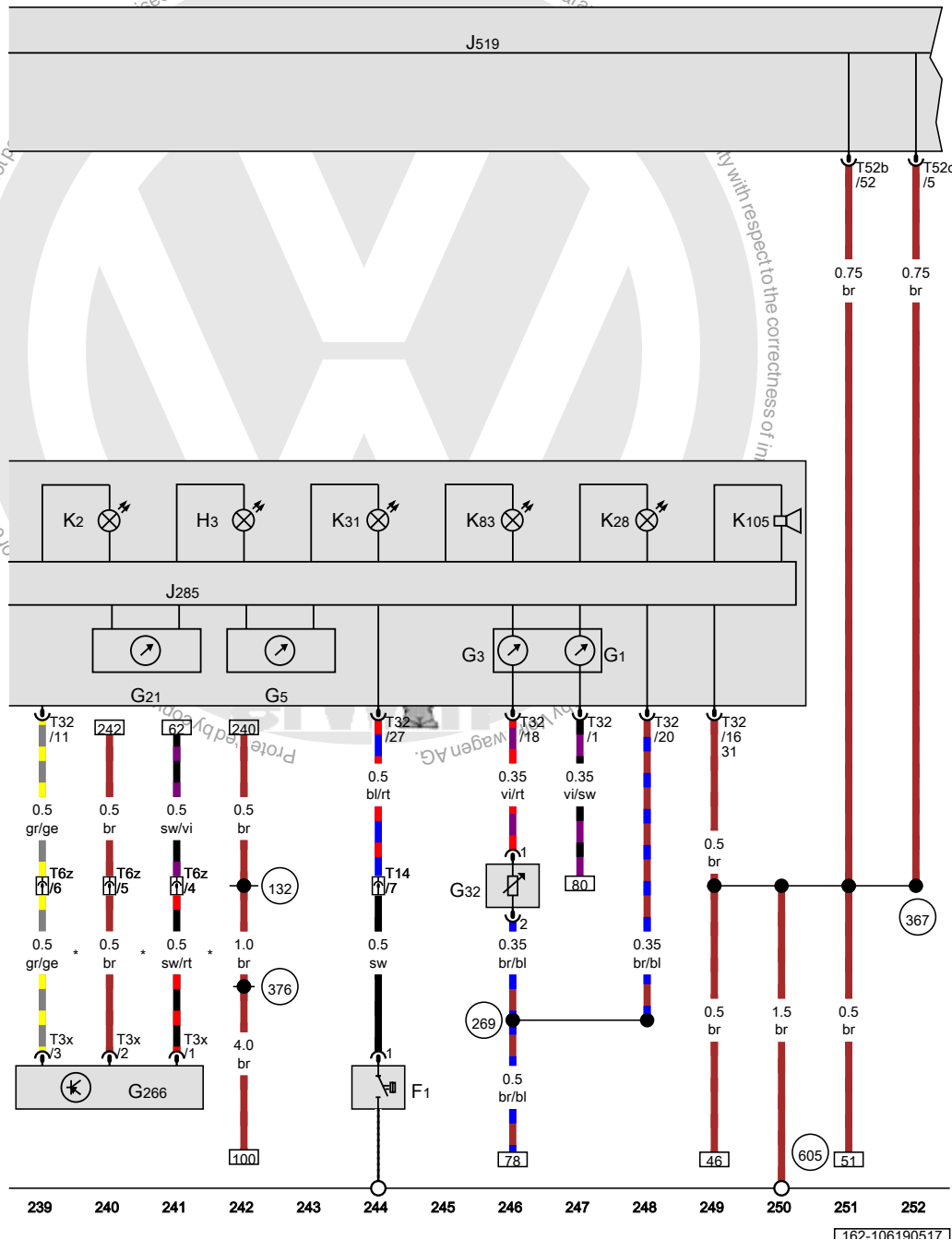
- 43 Ground Connection on A-Pillar, Lower Right
- 80 Ground Connection 1 (in Instrument Cluster Wiring Harness)
- 366 Ground Connection 1 (in Main Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- B397 Comfort System CAN Bus High Connection 1 (in Main Wiring Harness)
- B406 Comfort System CAN Bus Low Connection 1 (in Main Wiring Harness)
- B708 Instrument Cluster CAN Bus High Connection 1 (in Main Wiring Harness)
- B709 Instrument Cluster CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Diagnostic Connector

Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Generator Indicator Lamp, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp

- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K2 Generator Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- T3x 3-Pin Connector
- T6z 6-Pin Connector, Near the Left Headlamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- T52b 52-Pin Connector
- T52c 52-Pin Connector

- 132 Ground Connection 3 (in Engine Compartment Wiring Harness)
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- * For Vehicles Without Flexible Service Interval Display

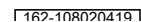
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 sw = black
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Seat Adjustment , (3PB),(3PS),(3PT),(3PZ)

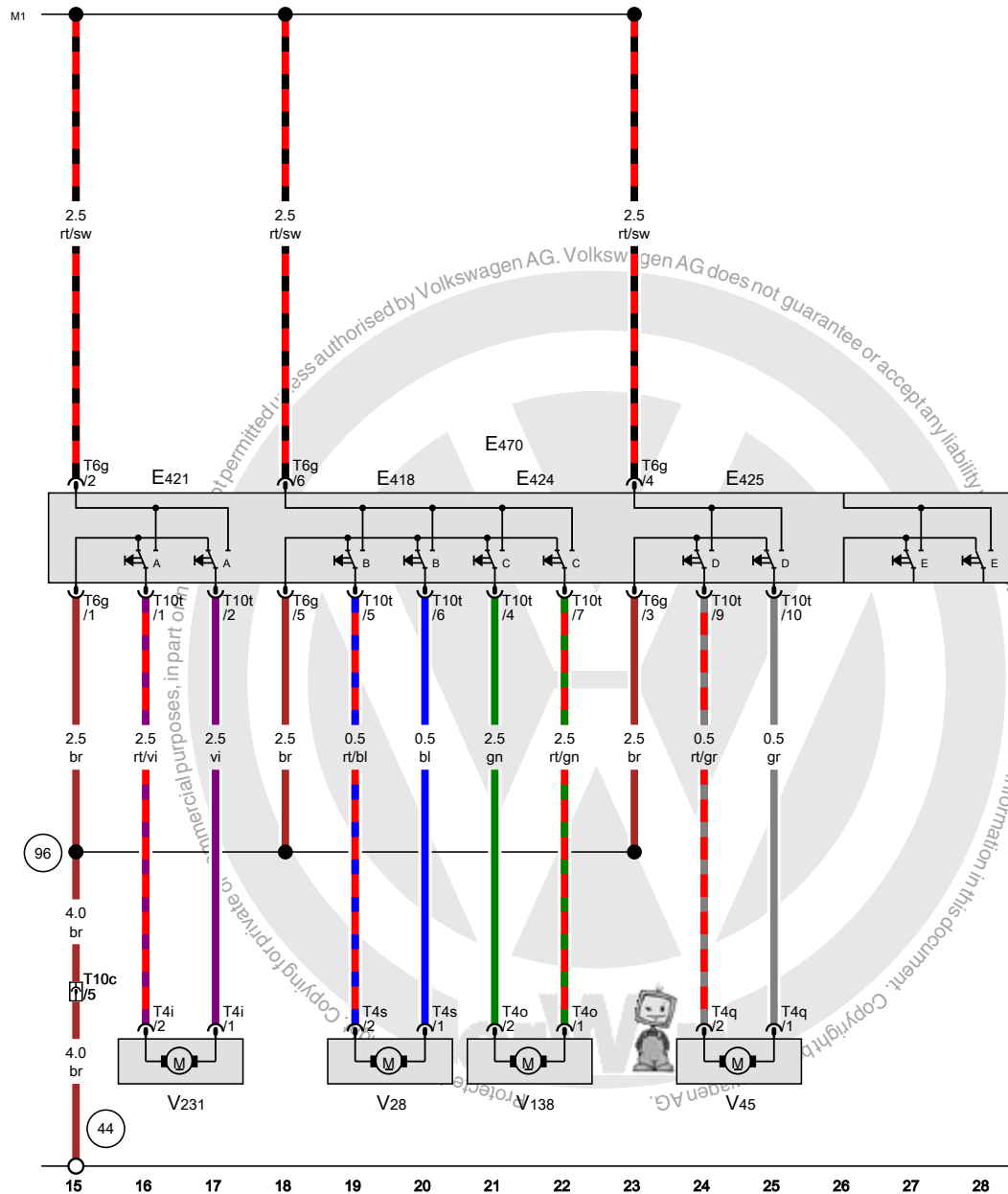
From December 2012





- | | |
|------|--|
| A | Battery |
| B | Starter |
| C | Generator |
| E796 | Backrest Adjustment Button 2 |
| S44 | Driver Power Seat Adjustment Circuit Breaker 1 |
| SA | Fuse Panel A |
| SA1 | Fuse 1 (On Fuse Panel A) |
| SA4 | Fuse 4 (On Fuse Panel A) |
| T4bq | 4-Pin Connector |
| T6bs | 6-Pin Connector |
| T8b | 8-Pin Connector |
| T10c | 10-Pin Connector, Under the Driver Seat |
| T10d | 10-Pin Connector, Under the Front Passenger Seat |
| V46 | Front Passenger Backrest Adjustment Motor |
| 43 | Ground Connection on A-Pillar, Lower Right |
| 145 | Ground Connection 3 (in Heated Seats Wiring Harness) |
| 508 | Terminal 30 Threaded Connection (On E-Box) |
| B111 | Positive Connection 1 (30a) (in Interior Wiring Harness) |
| B169 | Positive Connection 1 (30) (in Interior Wiring Harness) |
| B171 | Positive Connection 3 (30) (in Interior Wiring Harness) |
| B467 | Connection 3 (in Main Wiring Harness) |
| M1 | Positive Connection 1 (30) (in Seat Adjustment Wiring Harness) |

ws = white
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ro = red
rt = red
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gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink



Seat Forward/Back Adjustment Button, Seat Height Adjustment Button, Backrest Adjustment Button, Driver Seat Adjustment Control Head, Driver Seat Forward/Back Adjustment Motor, Driver Backrest Adjustment Motor, Driver Seat Height Adjustment Motor, Seat Angle Adjustment Motor

- E418 Seat Forward/Back Adjustment Button
- E421 Angle Adjustment Button
- E424 Seat Height Adjustment Button
- E425 Backrest Adjustment Button
- E470 Driver Seat Adjustment Control Head
- T4i 4-Pin Connector
- T4o 4-Pin Connector
- T4q 4-Pin Connector
- T4s 4-Pin Connector
- T6g 6-Pin Connector
- T10c 10-Pin Connector, Under the Driver Seat
- T10t 10-Pin Connector
- V28 Driver Seat Forward/Back Adjustment Motor
- V45 Driver Backrest Adjustment Motor
- V138 Driver Seat Height Adjustment Motor
- V231 Seat Angle Adjustment Motor

- 44 Ground Connection on A-Pillar, Lower Left
- 96 Ground Connection 1 (in Heated Seats Wiring Harness)
- M1 Positive Connection 1 (30) (in Seat Adjustment Wiring Harness)

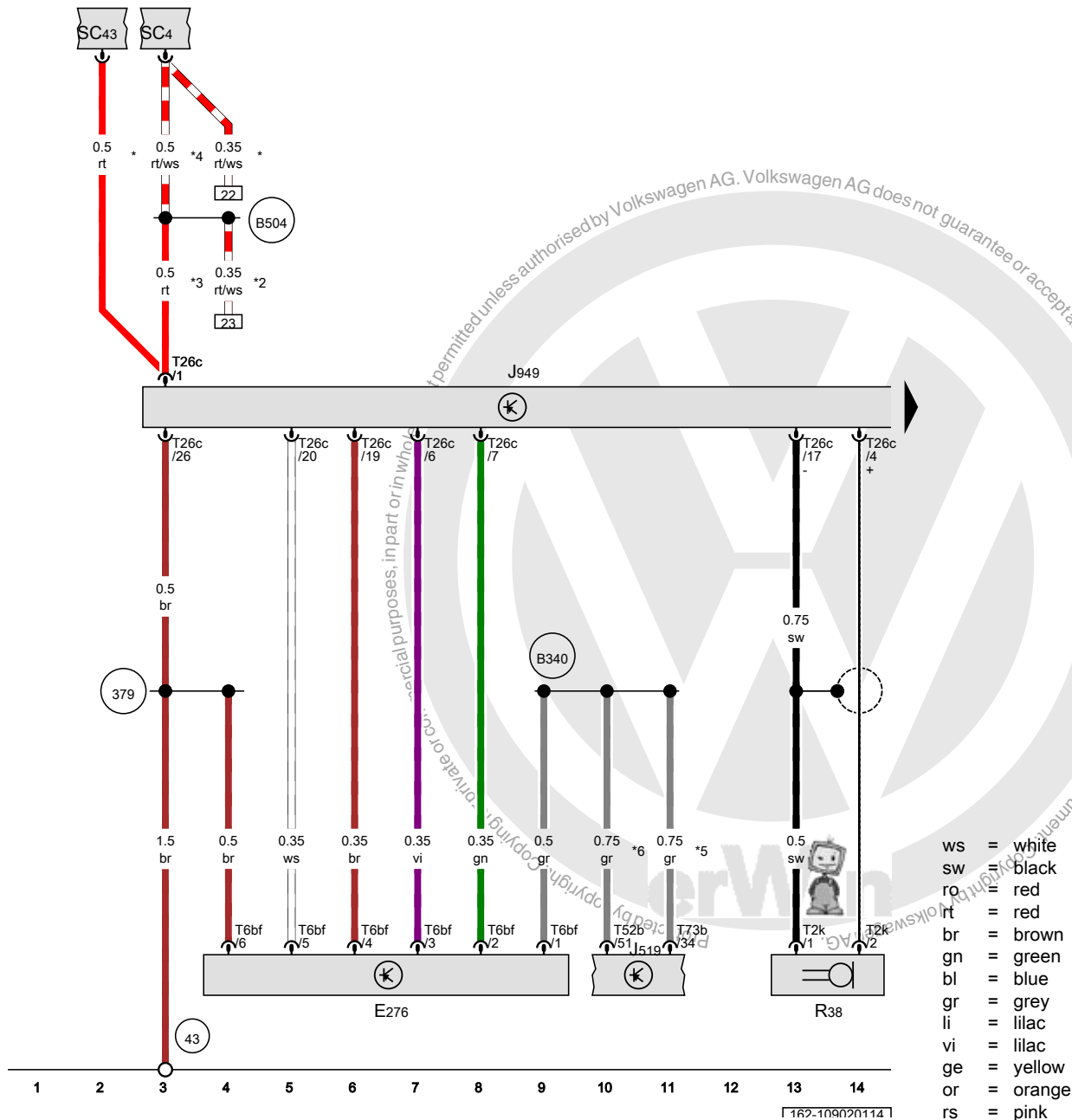
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Emergency call module , (EL2)

from June 2013



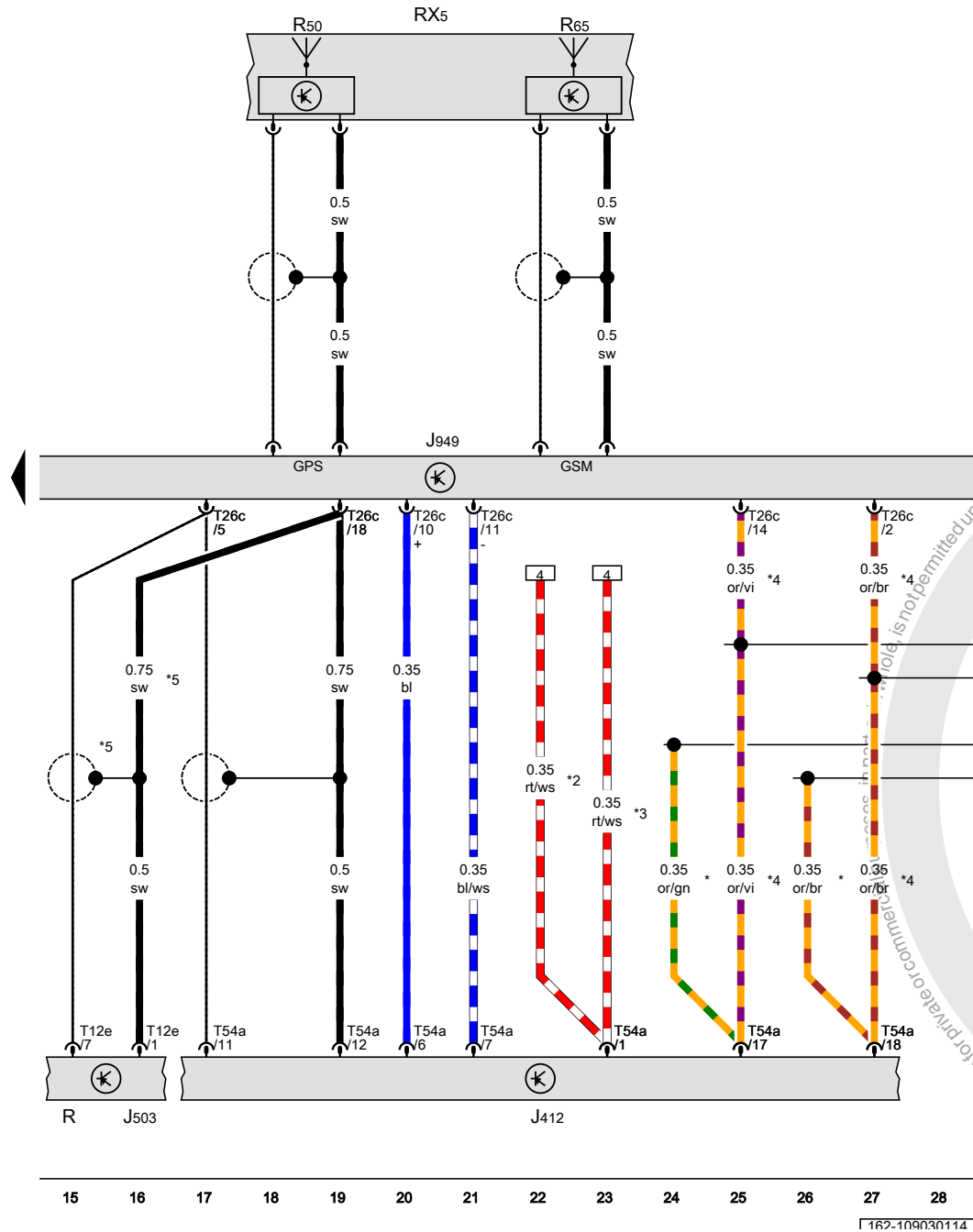
Emergency call button, Vehicle electrical system control module, Control module for emergency call module and communication unit, Telephone microphone



- E276 Emergency call button
- J519 Vehicle electrical system control module
- J949 Control module for emergency call module and communication unit, under the right front seat
- R38 Telephone microphone
- SC4 Fuse 4 (on fuse panel C)
- SC43 Fuse 43 (on fuse panel C)
- T2k Double connector
- T6bf 6-pin connector
- T26c 26-pin connector
- T52b 52-pin connector
- T73b 73-pin connector

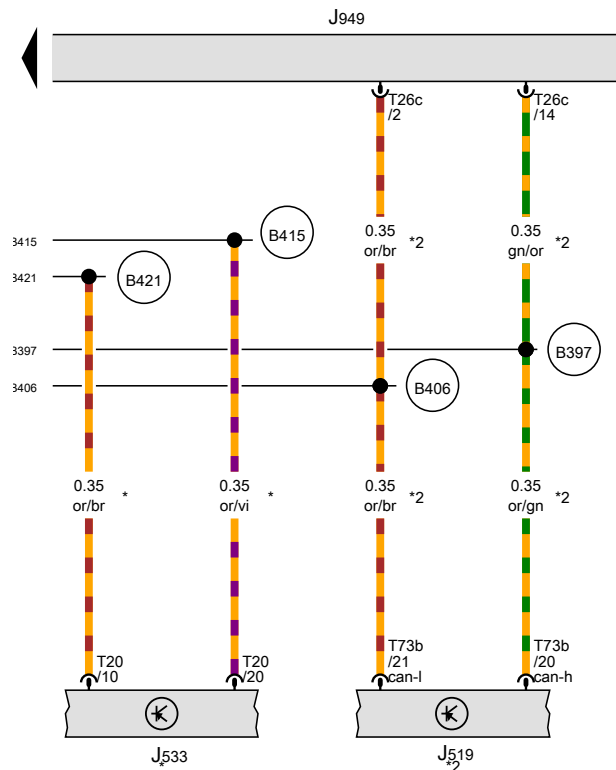
- 43 Ground connection on A-pillar, lower right
- 379 Ground connection 14 (in main wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- B504 Positive connection 8 (30a) (in interior wiring harness)
- *2 Only for vehicles without Start/Stop system
- *3 Only for vehicles with Start/Stop system
- *4 Diameter depends on equipment
- *5 only for vehicles with Low equipment (AW0)
- *6 only for vehicles with High equipment (AW1)

- ws = white
- sw = black
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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
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- ge = yellow
- or = orange
- rs = pink



Vehicle electrical system control module, Data bus on board diagnostic interface, Control module for emergency call module and communication unit

- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- J949 Control module for emergency call module and communication unit, under the right front seat
- T20 20-pin connector
- T26c 26-pin connector
- T73b 73-pin connector
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B415 Infotainment CAN Bus high connection 1 (in main wiring harness)
- B421 Infotainment CAN bus low connection 1 (in main wiring harness)
- * only for vehicles with High equipment (AW1)
- *2 only for vehicles with Low equipment (AW0)



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

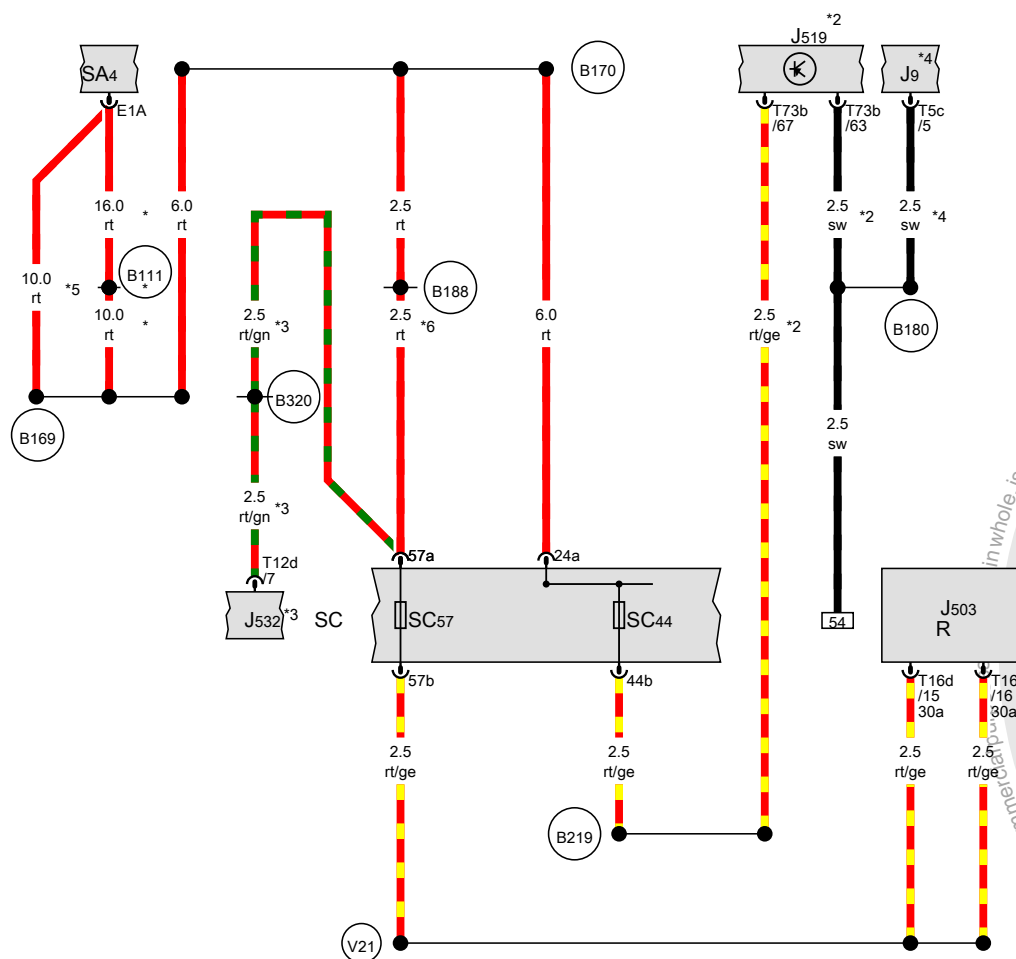
Radio systems/navigation systems

from June 2012



Radio/navigation display unit control module, Vehicle electrical system control module, Radio, Fuse 4 (on fuse panel A), Fuse panel C

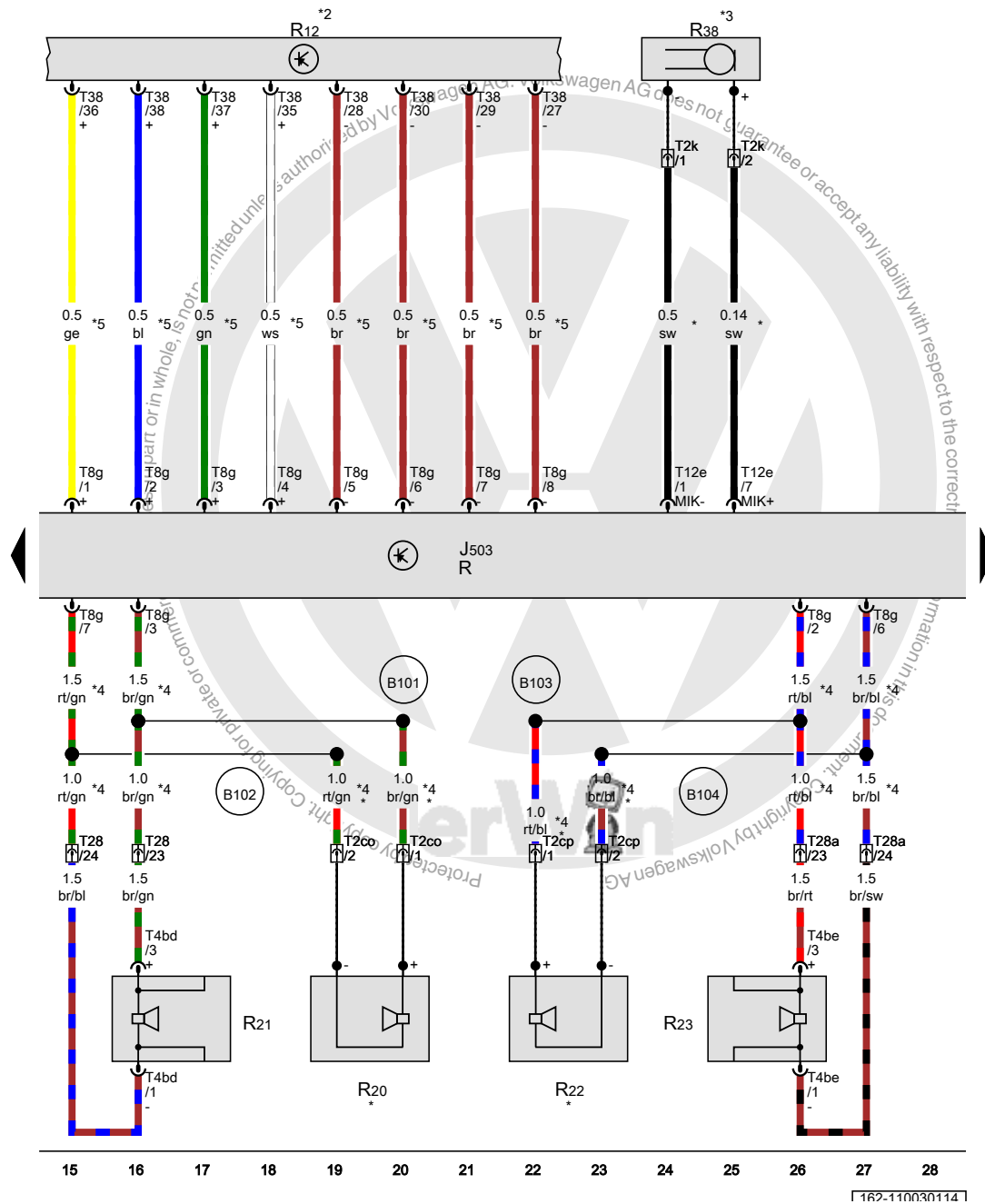
- J9 Rear window defogger relay
- J503 Radio/navigation display unit control module
- J519 Vehicle electrical system control module
- J532 Voltage stabilizer
- R Radio
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC44 Fuse 44 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)
- T5c 5-pin connector
- T12d 12-pin connector
- T16d 16-pin connector
- T73b 73-pin connector
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B180 Rear window defogger connection (in interior wiring harness)
- B188 Positive connection 5 (30) (in interior wiring harness)
- B219 Positive connection 4 (30a) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)
- * Omitted as a running change only for vehicles with Low equipment (AW0)
- *2 Only for vehicles with Stop/Start system
- *3 Only for vehicles with High equipment (AW1)
- *4 Running change
- *5 Only for vehicles without Start/Stop system



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1 2 3 4 5 6 7 8 9 10 11 12 13 14

162-110020114



Radio/navigation display unit control module, Radio, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker

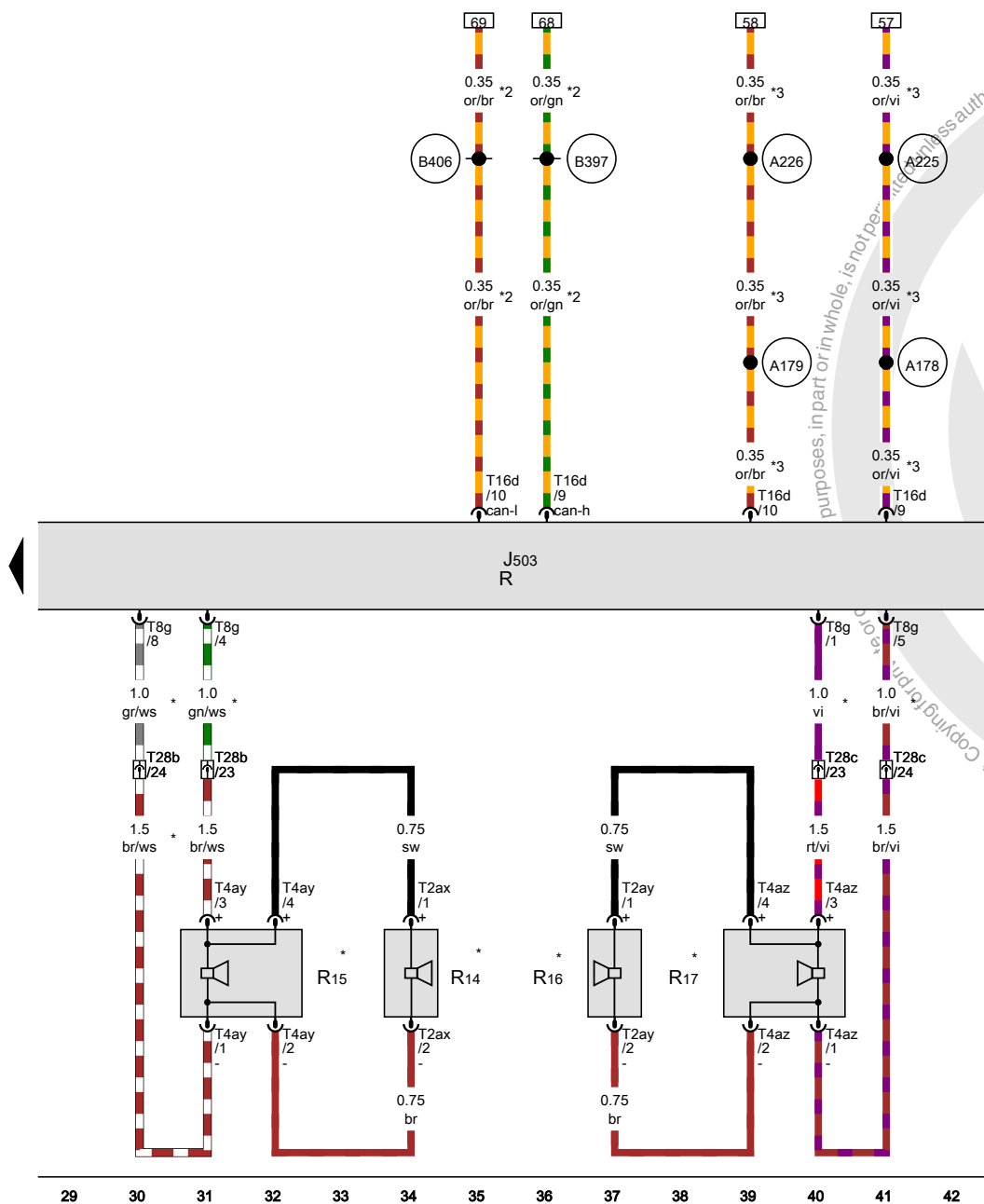
- J503 Radio/navigation display unit control module
- R Radio
- R12 Amplifier
- R20 Left front treble speaker
- R21 Left front bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- R38 Telephone microphone
- T2co Double connector, Interface for front speaker, in the instrument panel, left
- T2cp Double connector, Interface for front speaker, in the instrument panel, right
- T2k Double connector
- T4bd 4-pin connector
- T4be 4-pin connector
- T8g 8-pin connector
- T12e 12-pin connector
- T28 28-pin connector
- T28a 28-pin connector
- T38 38-pin connector

- B101 Left front speaker positive connection (in main wiring harness)
- B102 Left front speaker negative connection (in main wiring harness)
- B103 Right front speaker positive connection (in main wiring harness)
- B104 Right front speaker negative connection (in main wiring harness)

- * Depending on equipment
- *2 Refer to applicable sound system wiring diagram
- *3 Refer to applicable telephone systems wiring diagram
- *4 Only for vehicles without sound system
- *5 Only for vehicles with sound system

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- vi = lilac
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- or = orange
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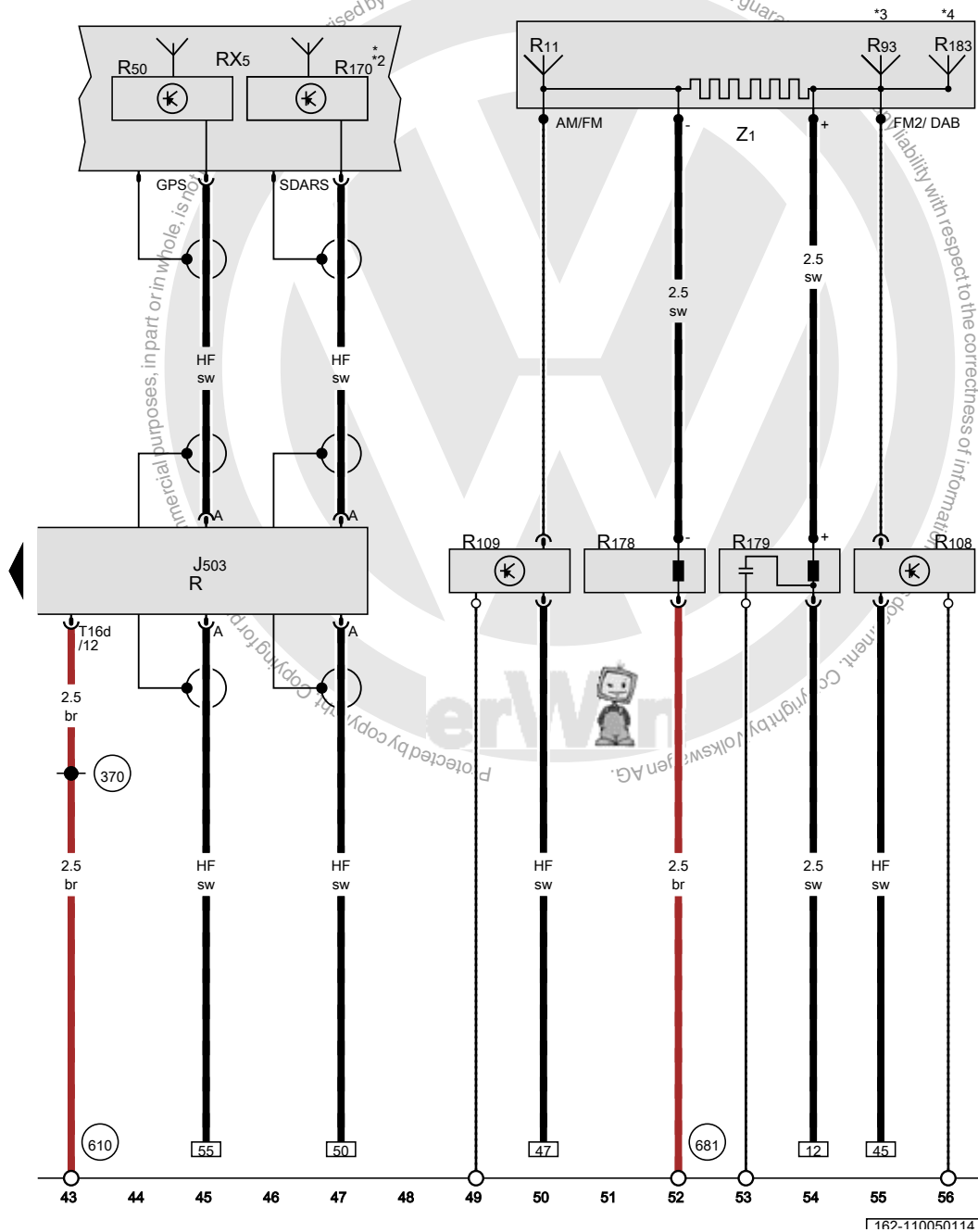
Radio/navigation display unit control module, Radio, Left rear treble speaker, Left rear bass speaker, Right rear treble speaker, Right rear bass speaker



- J503 Radio/navigation display unit control module
- R Radio
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- T2ax Double connector
- T2ay Double connector
- T4ay 4-pin connector
- T4az 4-pin connector
- T8g 8-pin connector
- T16d 16-pin connector
- T28b 28-pin connector
- T28c 28-pin connector
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- * Depending on equipment
- *2 only for vehicles with Low equipment (AW0)
- *3 only for vehicles with High equipment (AW1)

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162-110040114



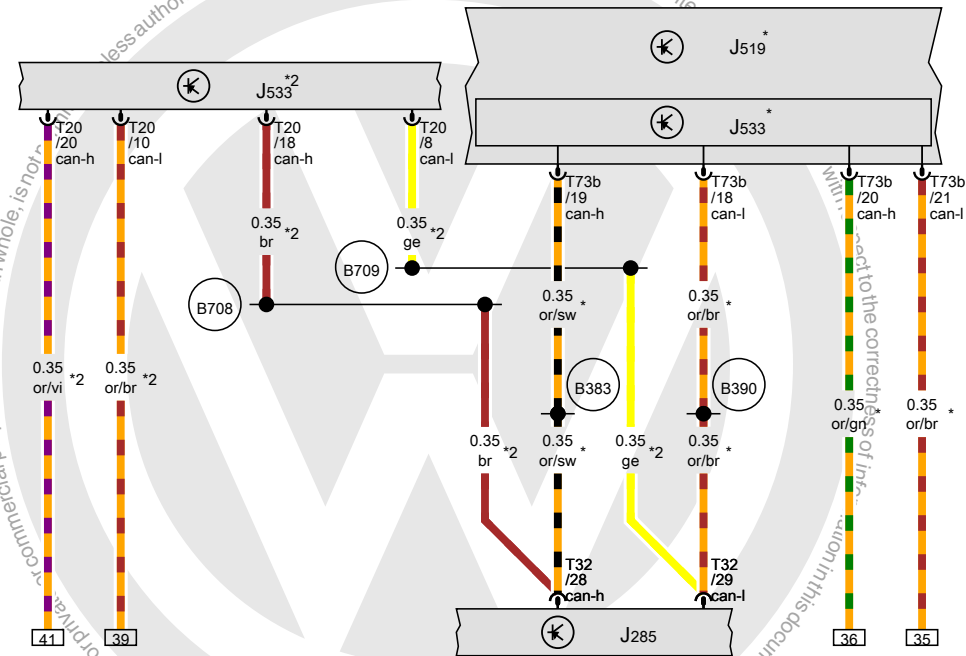
Radio/navigation display unit control module, Radio, Roof antenna, Antenna, GPS antenna, Radio antenna 2, Left antenna module, Right antenna module, Satellite antenna, Digital radio antenna, Rear window defogger

- J503 Radio/navigation display unit control module
- R Radio
- RX5 Roof antenna
- R11 Antenna
- R50 GPS antenna
- R93 Radio antenna 2
- R108 Left antenna module
- R109 Right antenna module
- R170 Satellite antenna
- R178 FM frequency filter in negative wire
- R179 FM frequency filter in positive wire
- R183 Digital radio antenna
- T16d 16-pin connector
- Z1 Rear window defogger

- 370 Ground connection 5 (in main wiring harness)
- 610 Audio ground connection under front center console
- 681 Ground connection 1 in right rear side panel

- * USA only
- *2 Only for vehicles with satellite radio
- *3 Depending on equipment
- *4 Only for vehicles with a digital radio

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Instrument cluster control module, Vehicle electrical system control module

- J285 Instrument cluster control module
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- T20 20-pin connector
- T32 32-pin connector
- T73b 73-pin connector

(B383) Powertrain CAN bus high connection 1 (in main wiring harness)

(B390) Powertrain CAN bus low connection 1 (in main wiring harness)

(B708) Instrument cluster CAN bus high connection 1 (in main wiring harness)

(B709) Instrument cluster CAN bus low connection 1 (in main wiring harness)

- * only for vehicles with Low equipment (AW0)
- *2 only for vehicles with High equipment (AW1)

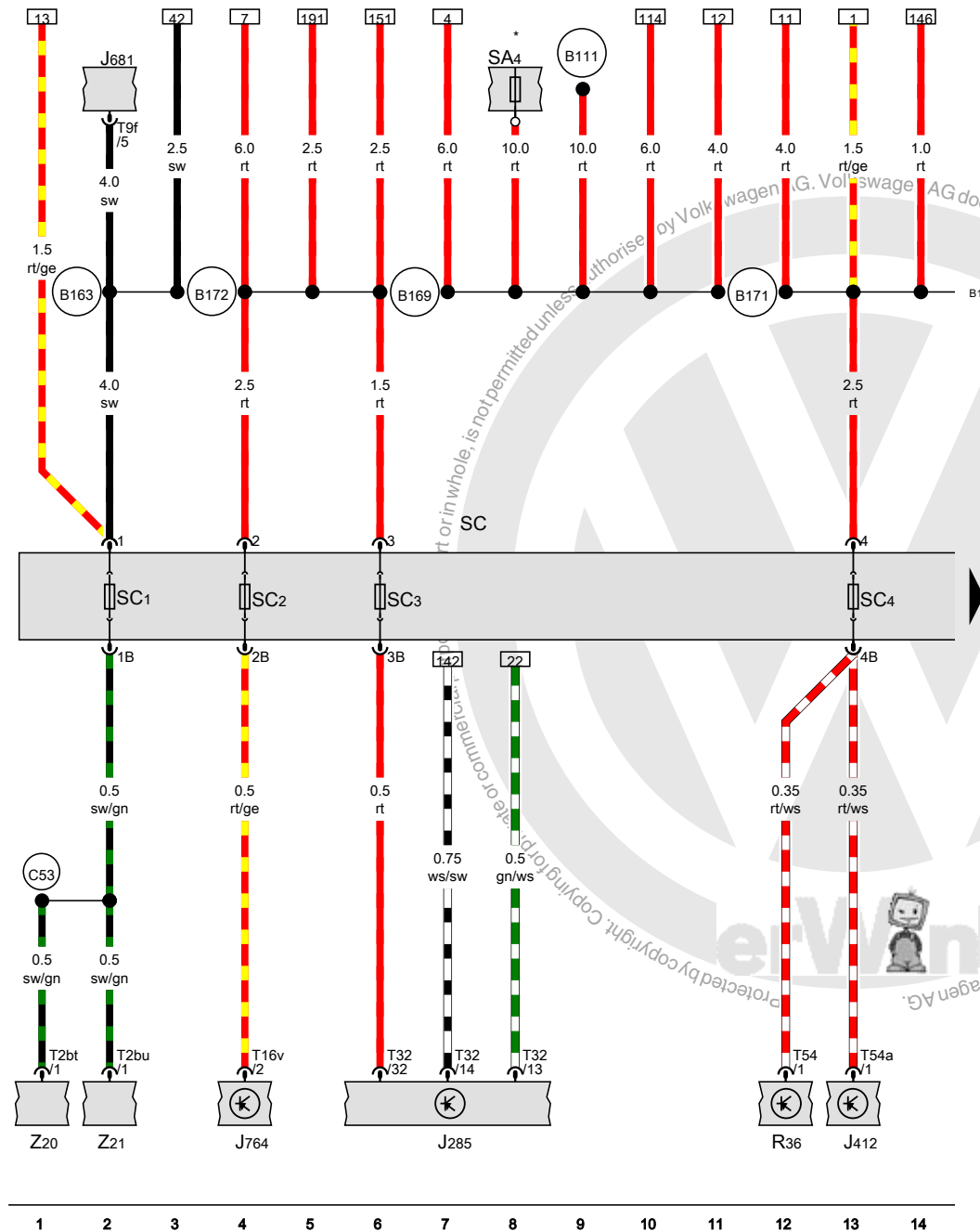
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- vi = lilac
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- rs = pink

Fuse assignment, passenger compartment , (AW0)

from May 2013

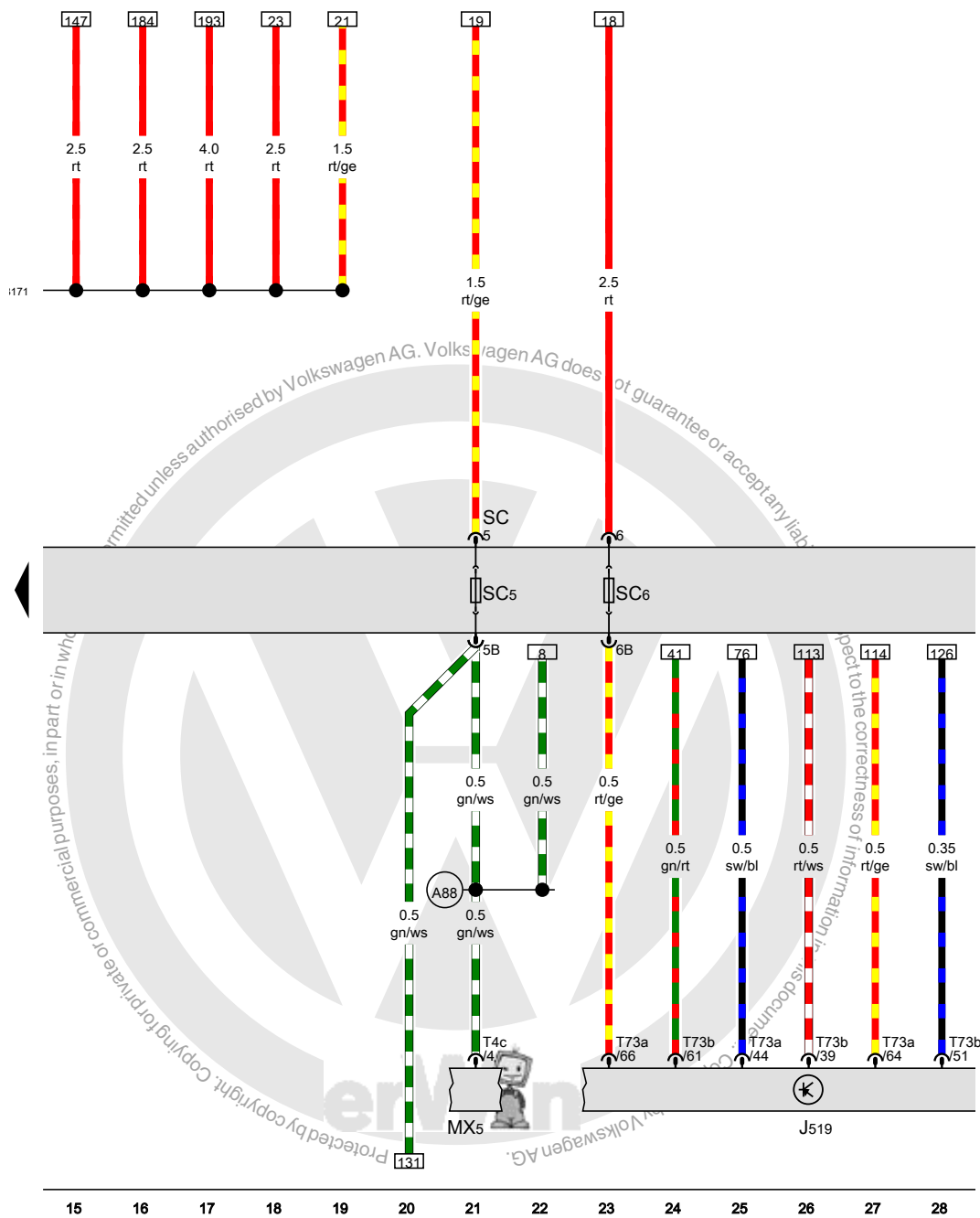


Fuse panel C



- J285 Instrument cluster control module
- J412 Cell phone operating electronics control module
- J681 Terminal 15 power supply relay 2
- J764 Electronic steering column lock control module
- R36 Telephone transceiver
- SC1 Fuse 1 (on fuse panel C)
- SC2 Fuse 2 (on fuse panel C)
- SC3 Fuse 3 (on fuse panel C)
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC4 Fuse 4 (on fuse panel C)
- T2bt Double connector
- T2bu Double connector
- T9f 9-pin connector
- T16v 16-pin connector
- T32 32-pin connector
- T54 54-pin connector
- T54a 54-pin connector
- Z20 Left washer nozzle heater
- Z21 Right washer nozzle heater
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- C53 Positive connection (x) (in heated spray nozzle wiring harness)
- * Only for vehicles without hybrid drive

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 gr = grey
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Fuse panel C

- J519 Vehicle electrical control module system
- MX5 Left tail lamp 2
- SC Fuse panel C
- SC5 Fuse 5 (on fuse panel C)
- SC6 Fuse 6 (on fuse panel C)
- T4c 4-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- A88 Fog lamp connection (in instrument panel wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)

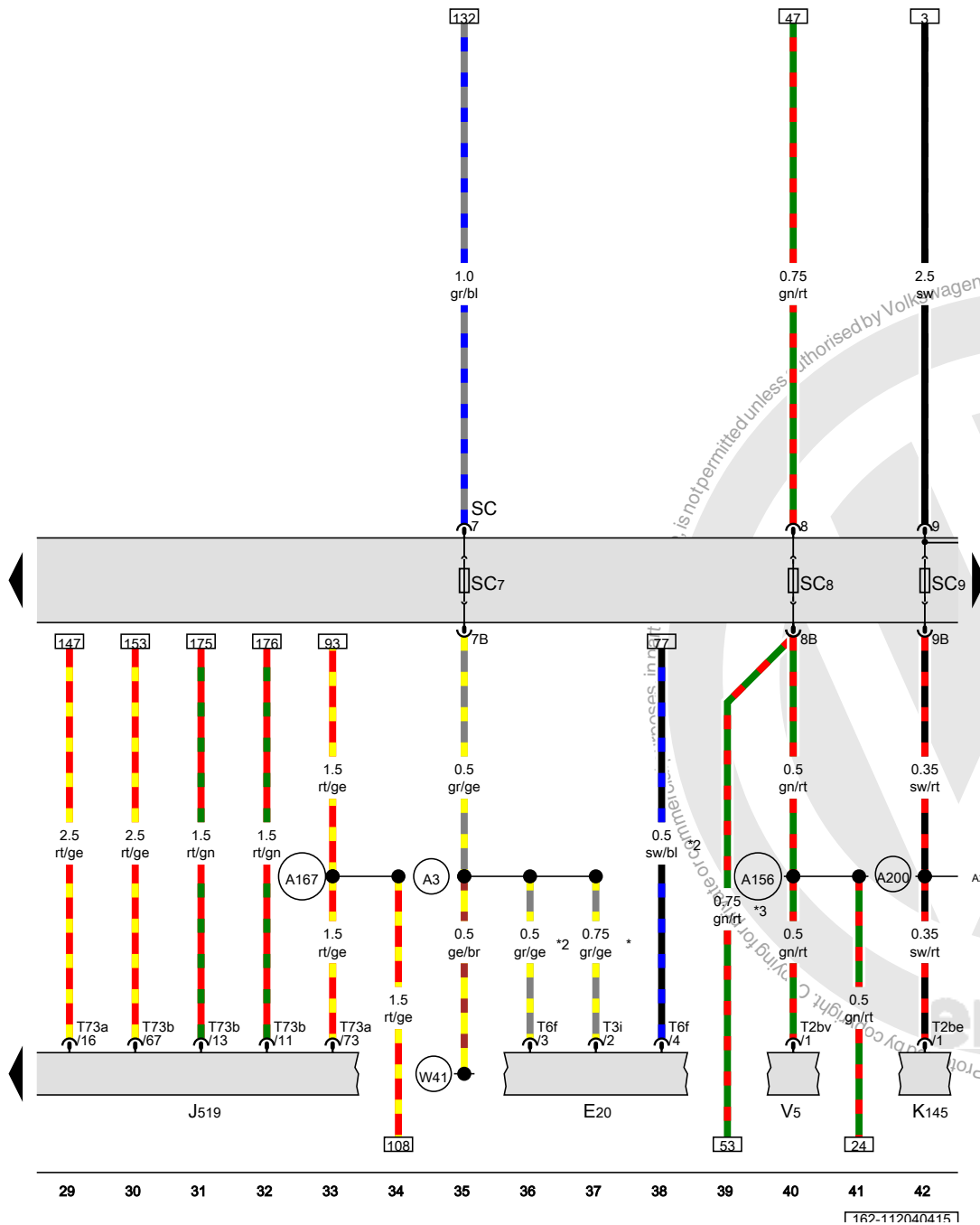
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- rs = pink

Fuse panel C

- E20 Instrument panel and switch illumination dimmer switch
- J519 Vehicle electrical control module system
- K145 Front passenger airbag -disabled- indicator lamp
- SC Fuse panel C
- SC7 Fuse 7 (on fuse panel C)
- SC8 Fuse 8 (on fuse panel C)
- SC9 Fuse 9 (on fuse panel C)
- T2be Double connector
- T2bv Double connector
- T3i 3-pin connector
- T6f 6-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- V5 Windshield washer pump

- A3 Positive connection (58) (in instrument panel wiring harness)
- A156 Connection (53c) inside instrument panel wiring harness
- A167 Positive connection 3 (30a) (in instrument panel wiring harness)
- A200 Positive connection 5 (15a) (in instrument panel wiring harness)
- W41 Positive connection (58) (in license plate lamp wiring harness)
- * Only for vehicles without headlamp range control
- *2 Only for vehicles with headlamp range control
- *3 Only for vehicles with China equipment

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Fuse panel C

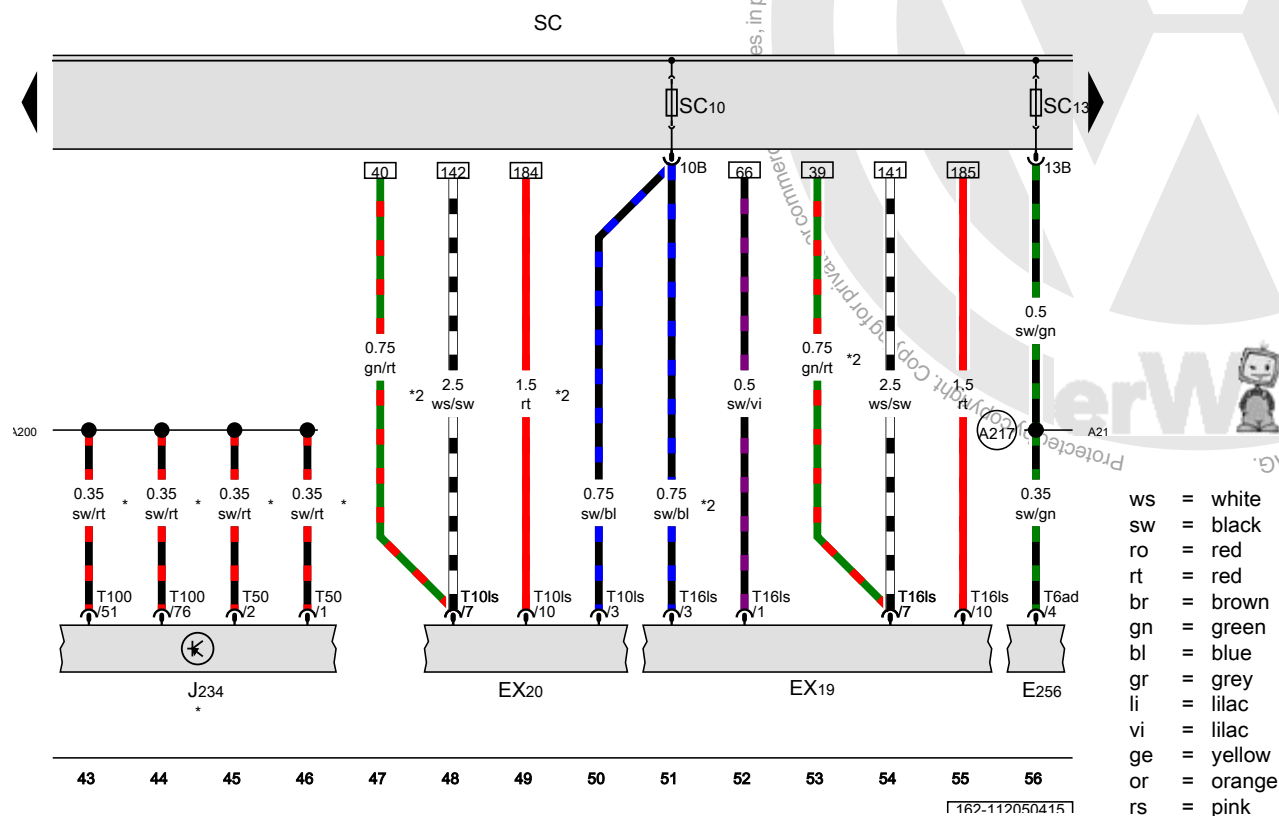
- EX19 Left steering column switch
- EX20 Right steering column switch
- E256 ASR/ESP button
- J234 Airbag control module
- SC Fuse panel C
- SC10 Fuse 10 (on fuse panel C)
- SC13 Fuse 13 (on fuse panel C)
- T6ad 6-pin connector
- T10ls 10-pin connector
- T16ls 16-pin connector
- T50 50-pin connector
- T100 100-pin connector

A200 Positive connection 5 (15a) (in instrument panel wiring harness)

A217 Positive connection 8 (15a) (in instrument panel wiring harness)

* Refer to applicable airbag wiring diagram

*2 Only for vehicles with China equipment



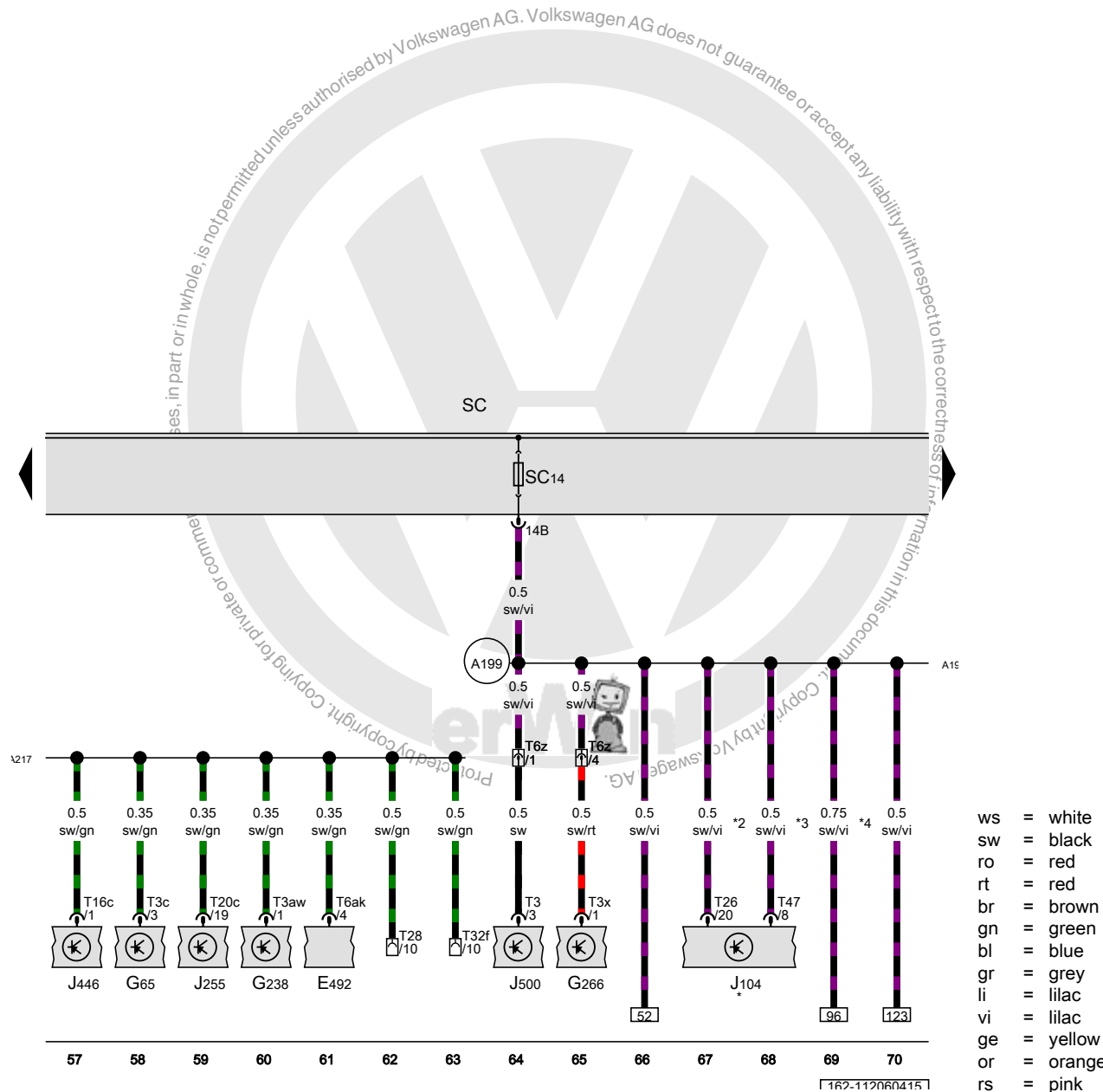
Fuse panel C

- E492 Tire pressure monitoring display button
- G65 High pressure sensor
- G238 Air quality sensor
- G266 Oil level thermal sensor
- J104 ABS control module
- J255 Climatronic control module
- J446 Parking aid control module
- J500 Power steering control module
- SC Fuse panel C
- SC14 Fuse 14 (on fuse panel C)
- T3 3-pin connector
- T3aw 3-pin connector
- T3c 3-pin connector
- T3x 3-pin connector
- T6ak 6-pin connector
- T6z 6-pin connector
- T16c 16-pin connector
- T20c 20-pin connector
- T26 26-pin connector
- T28 28-pin connector
- T32f 32-pin connector
- T47 47-pin connector

A199 Positive connection 4 (15a) (in instrument panel wiring harness)

A217 Positive connection 8 (15a) (in instrument panel wiring harness)

- * Refer to applicable ABS wiring diagram
- *2 Only for vehicles with ABS and without ESP
- *3 Only for vehicles with ABS and ESP
- *4 Refer to applicable transmission wiring diagram



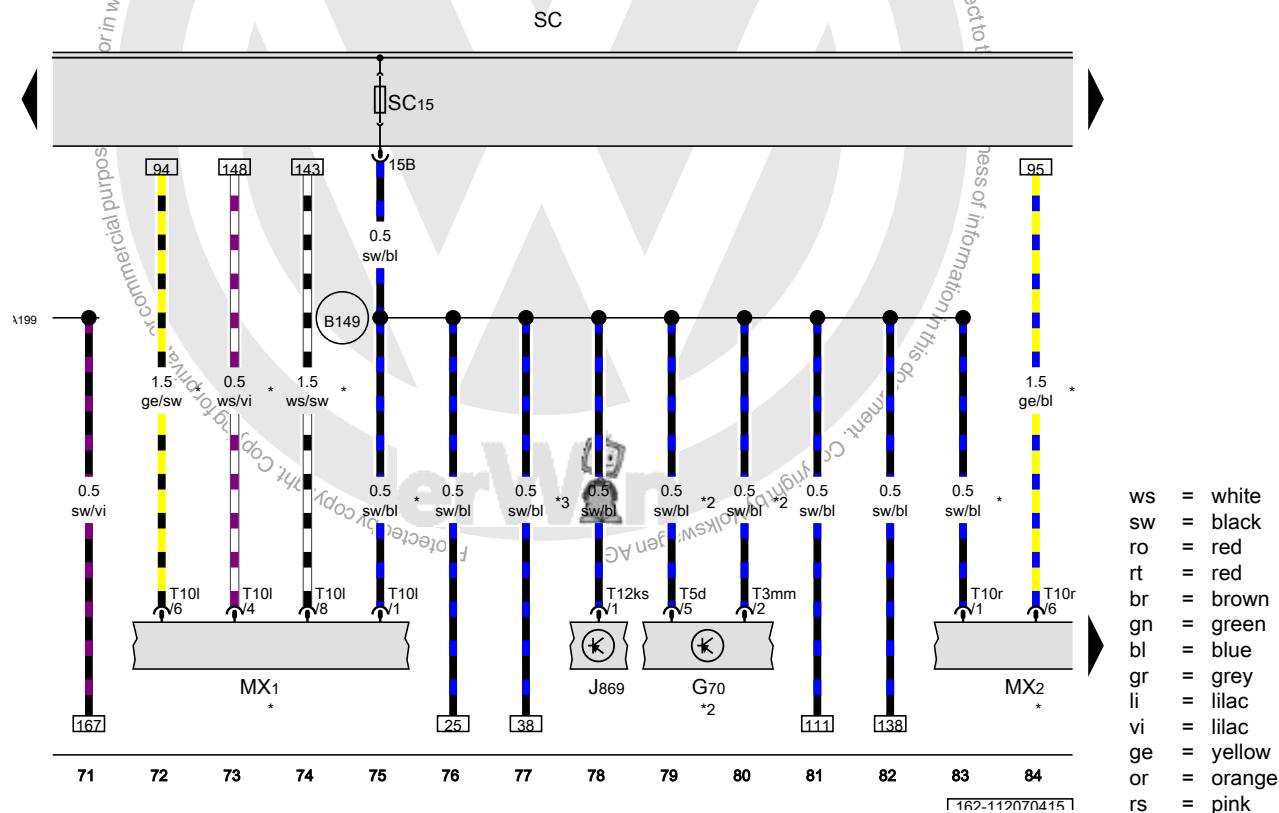
Fuse panel C

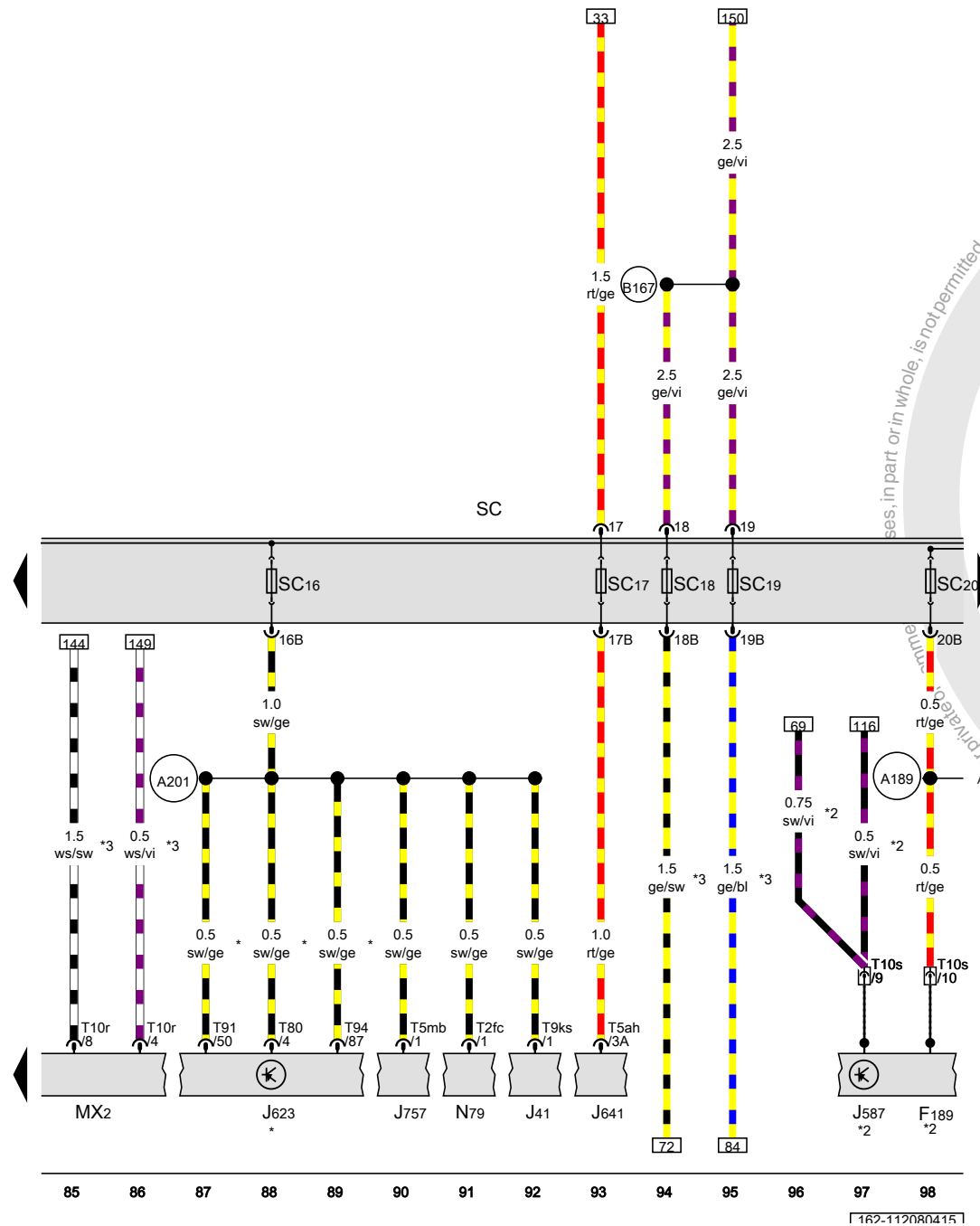
| | |
|-------|--------------------------------------|
| G70 | Mass airflow sensor |
| J869 | Structure borne sound control module |
| MX1 | Left front headlamp |
| MX2 | Right front headlamp |
| SC | Fuse panel C |
| SC15 | Fuse 15 (on fuse panel C) |
| T3mm | 3-pin connector |
| T5d | 5-pin connector |
| T10l | 10-pin connector |
| T10r | 10-pin connector |
| T12ks | 12-pin connector |

A199 Positive connection 4 (15a) (in instrument panel wiring harness)

B149 Positive connection 2 (15a) (in interior wiring harness)

- * Depending on equipment
- *2 Refer to applicable engine wiring diagram
- *3 Only for vehicles with headlamp range control





Fuse panel C

- F189 tiptronic switch
- J41 Cold start injector relay
- J587 Selector lever sensor system control module
- J623 Engine control module
- J641 Alarm horn relay
- J757 Engine component power supply relay
- MX2 Right front headlamp
- N79 Positive crankcase ventilation heating element
- SC Fuse panel C
- SC16 Fuse 16 (on fuse panel C)
- SC17 Fuse 17 (on fuse panel C)
- SC18 Fuse 18 (on fuse panel C)
- SC19 Fuse 19 (on fuse panel C)
- SC20 Fuse 20 (on fuse panel C)
- T2fc Double connector
- T5ah 5-pin connector
- T5mb 5-pin connector
- T9ks 9-pin connector
- T10r 10-pin connector
- T10s 10-pin connector
- T80 80-pin connector
- T91 91-pin connector
- T94 94-pin connector

A189 Positive connection 5 (30a) (in instrument panel wiring harness)

A201 Positive connection 6 (15a) (in instrument panel wiring harness)

B167 Connection 56b (in interior wiring harness)

* Refer to applicable engine wiring diagram

*2 Refer to applicable transmission wiring diagram

*3 Depending on equipment

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- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Fuse panel C

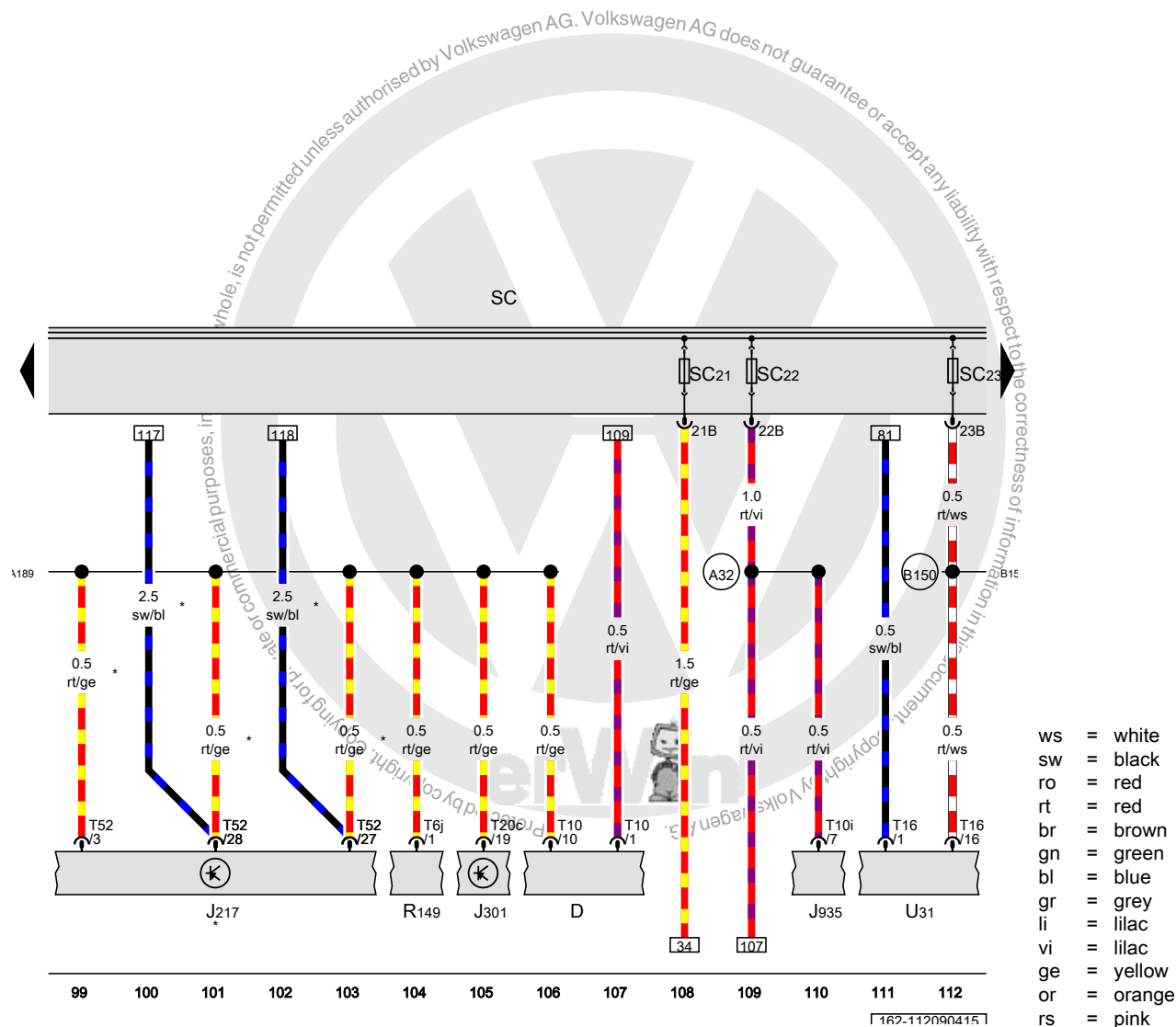
- D Ignition/starter switch
- J217 Transmission control module
- J301 A/C control module
- J935 Converter box
- R149 Auxiliary engine coolant heater radio frequency receiver
- SC Fuse panel C
- SC21 Fuse 21 (on fuse panel C)
- SC22 Fuse 22 (on fuse panel C)
- SC23 Fuse 23 (on fuse panel C)
- T6j 6-pin connector
- T10 10-pin connector
- T10i 10-pin connector
- T16 16-pin connector
- T20c 20-pin connector
- T52 52-pin connector
- U31 Diagnostic connection

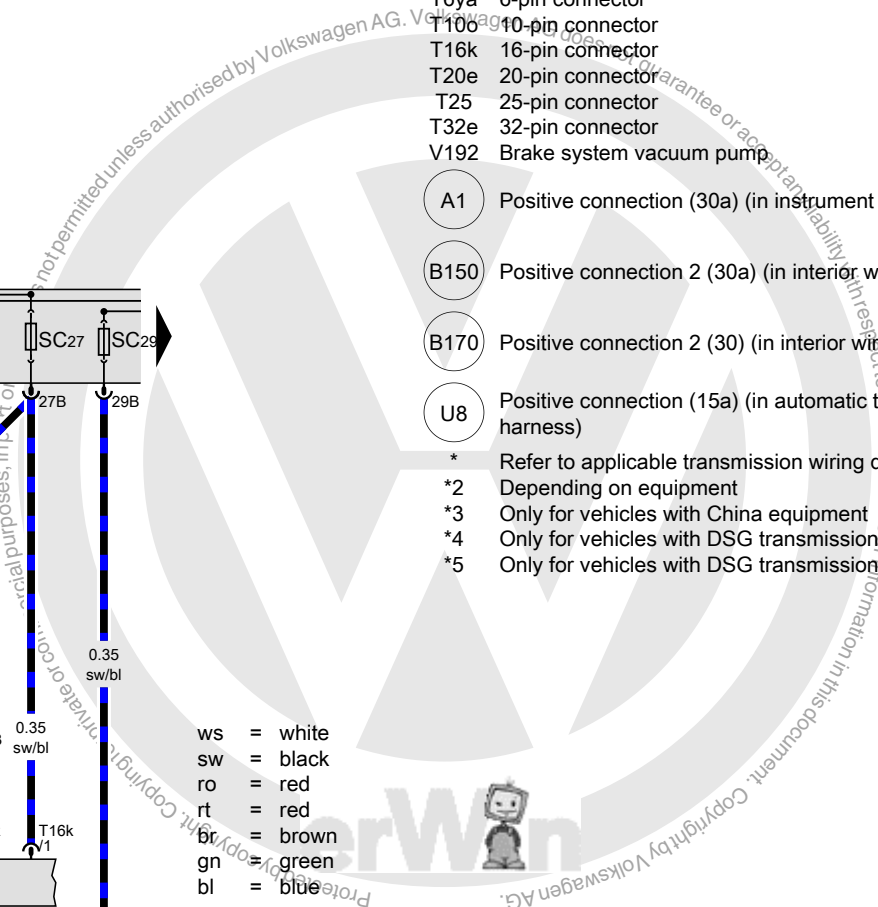
(A32) Positive connection (30) (in instrument panel wiring harness)

(A189) Positive connection 5 (30a) (in instrument panel wiring harness)

(B150) Positive connection 2 (30a) (in interior wiring harness)

* Depending on equipment





| | |
|------|---|
| F125 | Multifunction transmission range switch |
| F138 | Airbag spiral spring/return spring with slip ring |
| J518 | Access/start authorization control module |
| J743 | DSG transmission Mechatronic |
| SC | Fuse panel C |
| SC24 | Fuse 24 (on fuse panel C) |
| SC25 | Fuse 25 (on fuse panel C) |
| SC26 | Fuse 26 (on fuse panel C) |
| SC27 | Fuse 27 (on fuse panel C) |
| SC29 | Fuse 29 (on fuse panel C) |
| T6ya | 6-pin connector |
| T100 | 10-pin connector |
| T16k | 16-pin connector |
| T20e | 20-pin connector |
| T25 | 25-pin connector |
| T32e | 32-pin connector |
| V192 | Brake system vacuum pump |

- | | |
|------|--|
| A1 | Positive connection (30a) (in instrument panel wiring harness) |
| B150 | Positive connection 2 (30a) (in interior wiring harness) |
| B170 | Positive connection 2 (30) (in interior wiring harness) |
| U8 | Positive connection (15a) (in automatic transmission wiring harness) |
| * | Refer to applicable transmission wiring diagram |
| *2 | Depending on equipment |
| *3 | Only for vehicles with China equipment |
| *4 | Only for vehicles with DSG transmission 0AM |
| *5 | Only for vehicles with DSG transmission 02E |

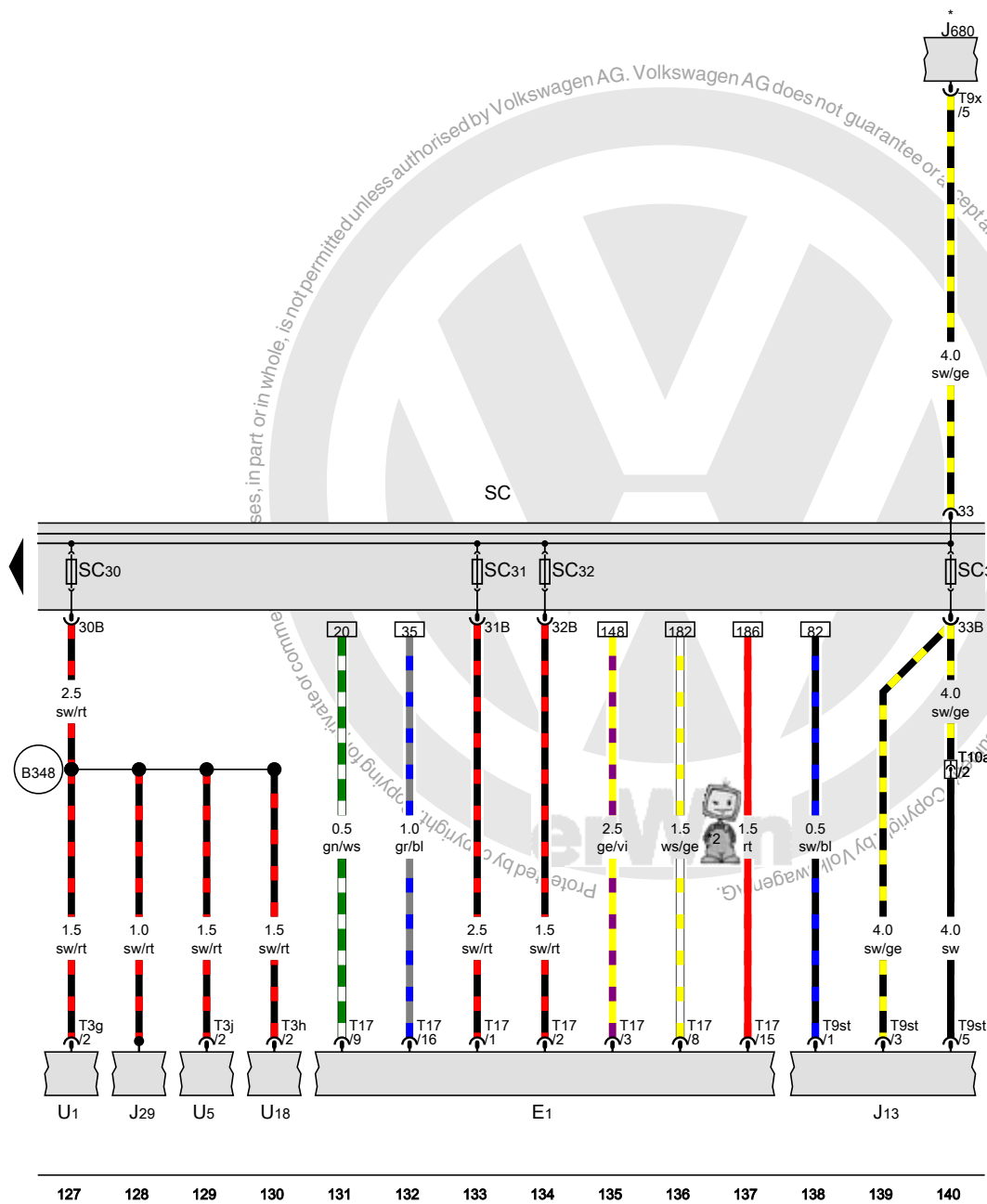
ws = white
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ro = red
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Fuse panel C

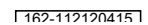
- E1 Light switch
- J13 Fresh air blower relay
- J29 Blocking diode
- J680 Terminal 75 power supply relay 1
- SC Fuse panel C
- SC30 Fuse 30 (on fuse panel C)
- SC31 Fuse 31 (on fuse panel C)
- SC32 Fuse 32 (on fuse panel C)
- SC33 Fuse 33 (on fuse panel C)
- T3g 3-pin connector
- T3h 3-pin connector
- T3j 3-pin connector
- T9st 9-pin connector
- T9x 9-pin connector
- T10a 10-pin connector
- T17 17-pin connector
- U1 Cigarette lighter
- U5 12 V socket
- U18 12 V socket 2

B348 Connection 75a (in main wiring harness) 1

- * Refer to applicable standard equipment wiring diagram
- *2 Depending on equipment



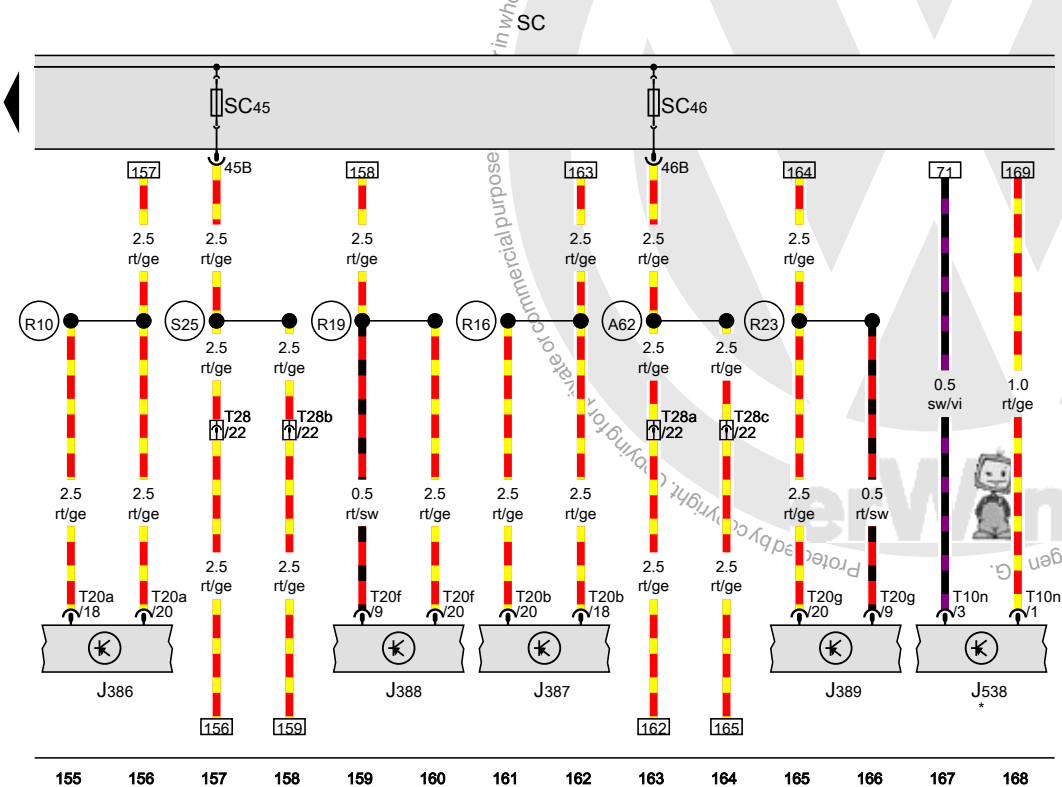
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Fuse panel C

- J386 Driver door control module
- J387 Front passenger door control module
- J388 Left rear door control module
- J389 Right rear door control module
- J538 Fuel pump control module
- SC Fuse panel C
- SC45 Fuse 45 (on fuse panel C)
- SC46 Fuse 46 (on fuse panel C)
- T10n 10-pin connector
- T20a 20-pin connector
- T20b 20-pin connector
- T20f 20-pin connector
- T20g 20-pin connector
- T28 28-pin connector
- T28a 28-pin connector
- T28b 28-pin connector
- T28c 28-pin connector

- A62 Power window connection (in instrument panel wiring harness)
- R10 Positive connection 1 (30) (in driver door wiring harness)
- R16 Positive connection 1 (30) (in front passenger door wiring harness)
- R19 Positive connection 1 (30) (in left rear door wiring harness)
- R23 Positive connection 1 (30) (in right rear door wiring harness)
- S25 Positive connection (30a) (in central locking system wiring harness)
- * Refer to applicable engine wiring diagram



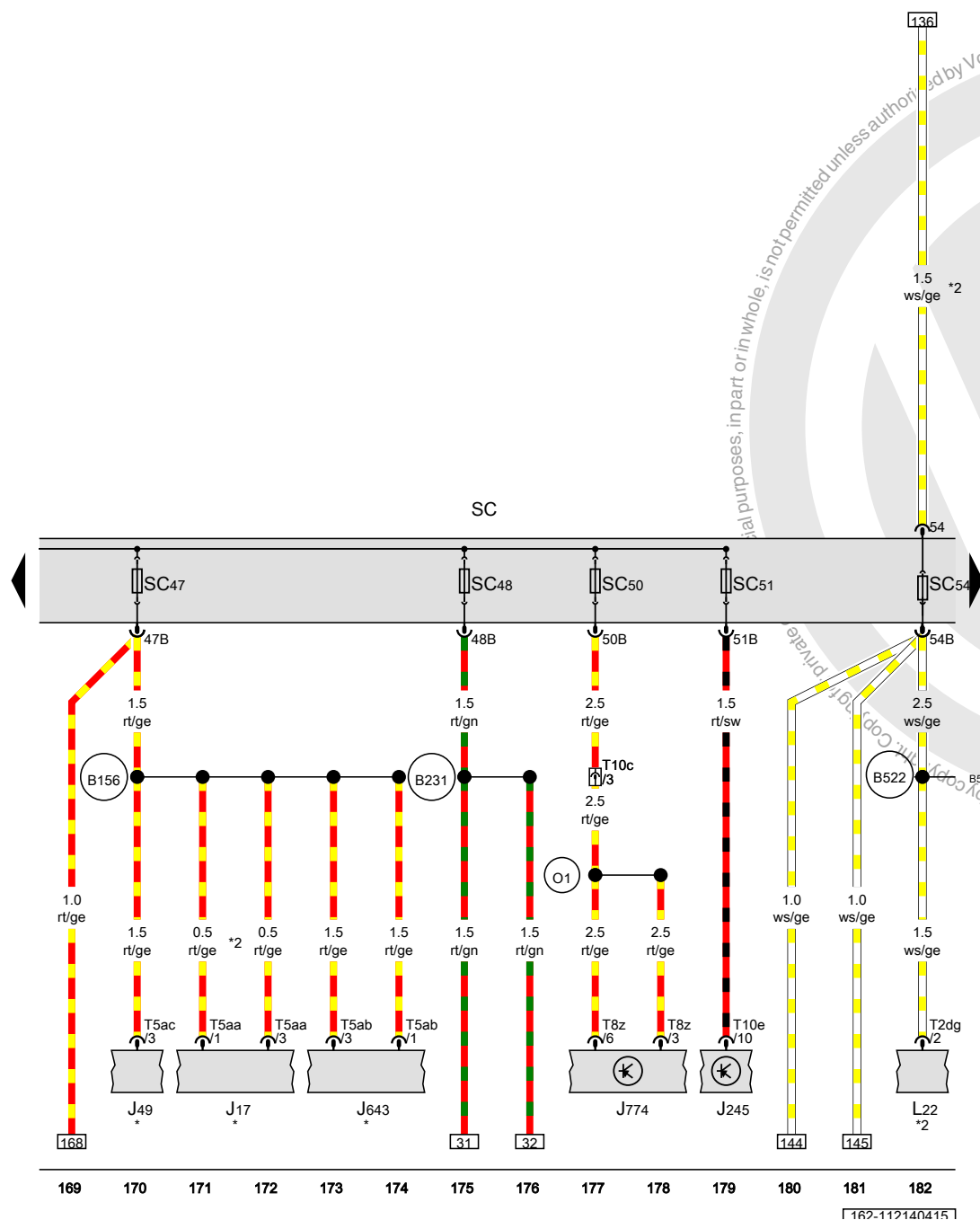
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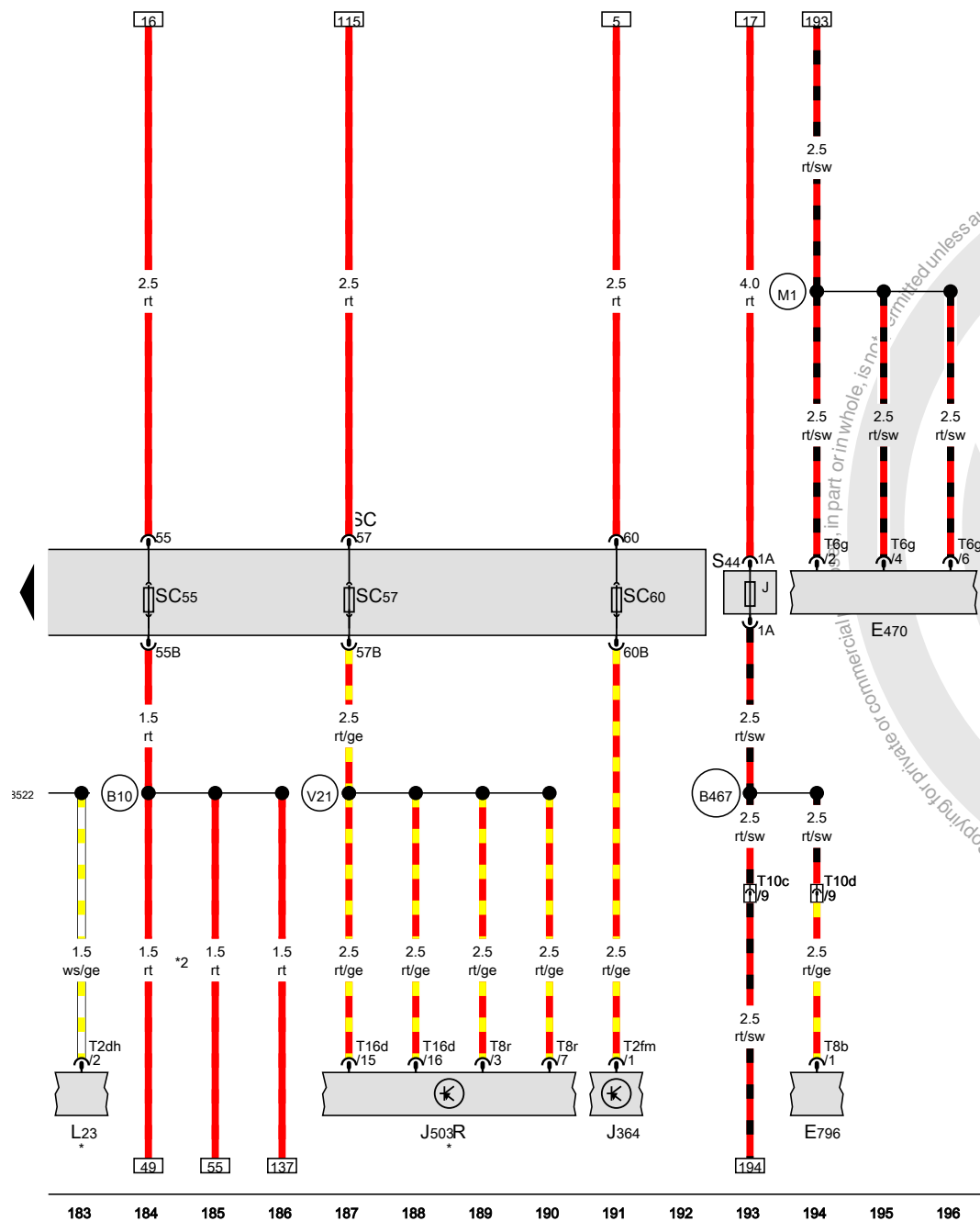
Fuse panel C

- J17 Fuel pump relay
- J49 Fuel pump relay 2
- J245 Power sunroof control module
- J643 Fuel primer relay
- J774 Front seat heating control module
- L22 Left front fog lamp bulb
- SC Fuse panel C
- SC47 Fuse 47 (on fuse panel C)
- SC48 Fuse 48 (on fuse panel C)
- SC50 Fuse 50 (on fuse panel C)
- SC51 Fuse 51 (on fuse panel C)
- SC54 Fuse 54 (on fuse panel C)
- T2dg Double connector
- T5aa 5-pin connector
- T5ab 5-pin connector
- T5ac 5-pin connector
- T8z 8-pin connector
- T10c 10-pin connector
- T10e 10-pin connector

- B156 Positive connection (30a) (in interior wiring harness)
- B231 Positive connection 5 (30a) (in interior wiring harness)
- B522 Fog lamp connection (in main wiring harness)
- O1 Positive connection (30) (in heated seats wiring harness)
- * Refer to applicable engine wiring diagram
- *2 Depending on equipment

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Fuse panel C

- E470 Driver seat adjustment control head
- E796 Backrest adjustment button 2
- J364 Auxiliary heater control module
- J503 Radio/navigation display unit control module
- L23 Right front fog lamp bulb
- R Radio
- S44 Driver power seat adjustment circuit breaker 1
- SC Fuse panel C
- SC55 Fuse 55 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)
- SC60 Fuse 60 (on fuse panel C)
- T2dh Double connector
- T2fm Double connector
- T6g 6-pin connector
- T8b 8-pin connector
- T8r 8-pin connector
- T10c 10-pin connector
- T10d 10-pin connector
- T16d 16-pin connector

- B10 Positive connection (30) (in light switch wiring harness)
- B467 Connection 3 (in main wiring harness)
- B522 Fog lamp connection (in main wiring harness)
- M1 Positive connection 1 (30) (in seat adjustment wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)

* Depending on equipment
 *2 Only for vehicles with China equipment

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162-112150415

Fuse assignment, passenger compartment , (AW1)

from May 2013



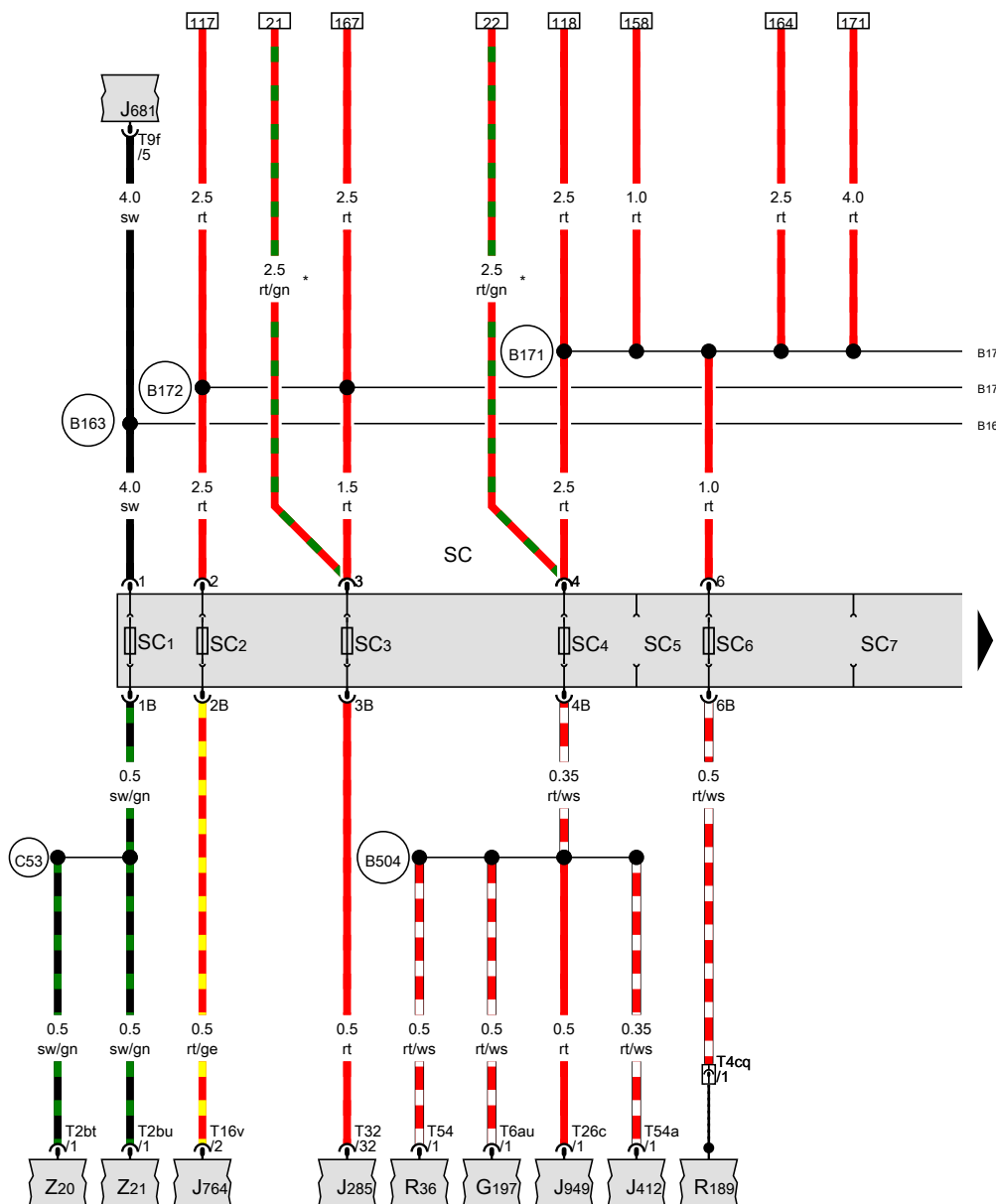
Fuse panel C

- G197 Compass magnetic field sensor
- J285 Instrument cluster control module
- J412 Cell phone operating electronics control module
- J681 Terminal 15 power supply relay 2
- J764 Electronic steering column lock control module
- J949 Control module for emergency call module and communication unit
- R36 Telephone transceiver
- R189 Rearview camera
- SC Fuse panel C
- SC1 Fuse 1 (on fuse panel C)
- SC2 Fuse 2 (on fuse panel C)
- SC3 Fuse 3 (on fuse panel C)
- SC4 Fuse 4 (on fuse panel C)
- SC5 Fuse 5 (on fuse panel C)
- SC6 Fuse 6 (on fuse panel C)
- SC7 Fuse 7 (on fuse panel C)
- T2bt Double connector
- T2bu Double connector
- T4cq 4-pin connector
- T6au 6-pin connector
- T9f 9-pin connector
- T16v 16-pin connector
- T26c 26-pin connector
- T32 32-pin connector
- T54 54-pin connector
- T54a 54-pin connector
- Z20 Left washer nozzle heater
- Z21 Right washer nozzle heater

- B163 Positive connection 1 (15) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B504 Positive connection 8 (30a) (in interior wiring harness)
- C53 Positive connection (x) (in heated spray nozzle wiring harness)

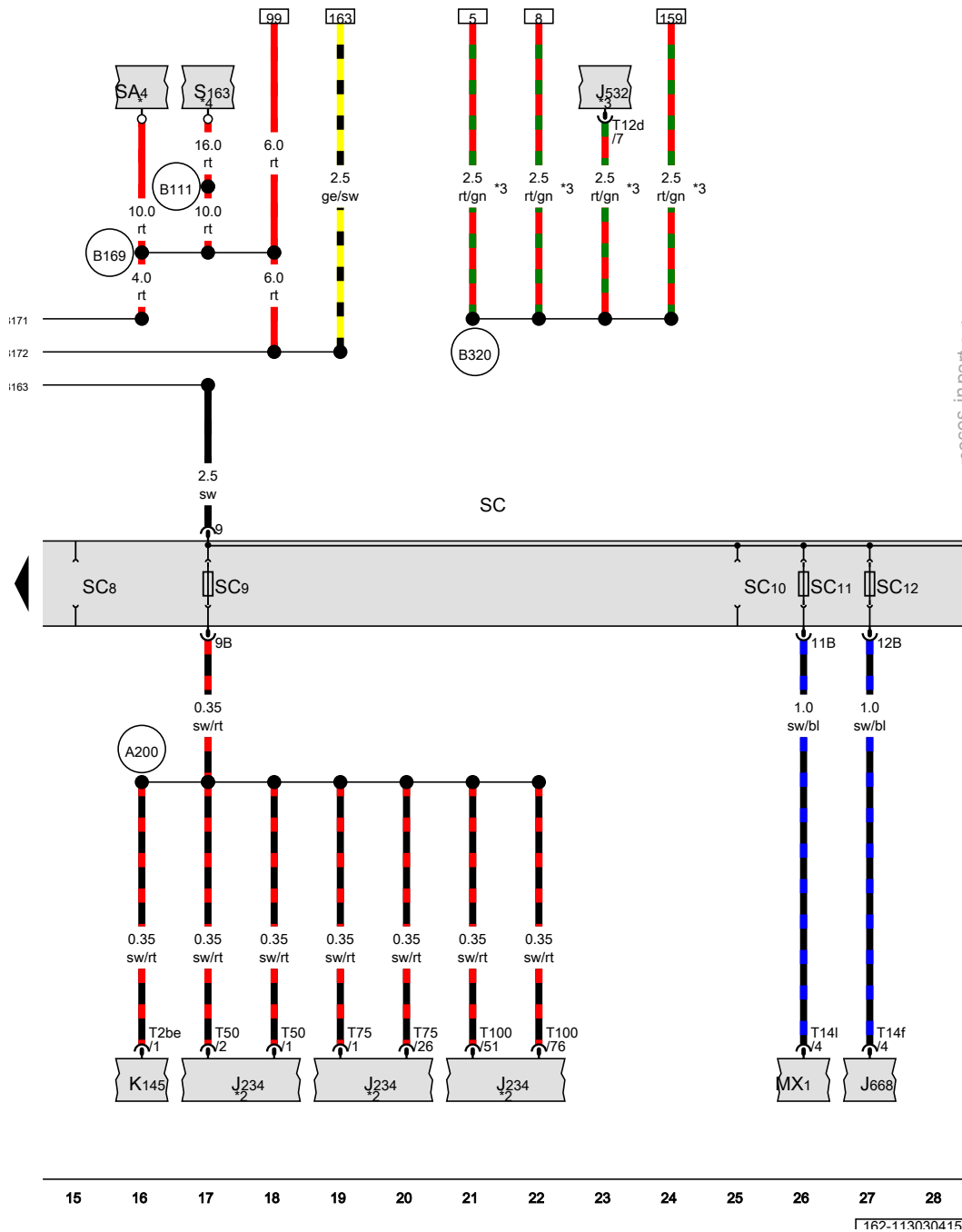
* Only for vehicles with Start/Stop system

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



1 2 3 4 5 6 7 8 9 10 11 12 13 14

162-113020415



Fuse panel C

- J234 Airbag control module
- J532 Voltage stabilizer
- J668 Right headlamp power output module
- K145 Front passenger airbag -disabled- indicator lamp
- MX1 Left front headlamp
- SA4 Fuse 4 (on fuse panel A)
- SC Fuse panel C
- SC8 Fuse 8 (on fuse panel C)
- SC9 Fuse 9 (on fuse panel C)
- SC10 Fuse 10 (on fuse panel C)
- SC11 Fuse 11 (on fuse panel C)
- SC12 Fuse 12 (on fuse panel C)
- S163 Fuse 2 (terminal 30) on battery fuse panel
- T2be Double connector
- T12d 12-pin connector
- T14f 14-pin connector
- T14l 14-pin connector
- T50 50-pin connector
- T75 75-pin connector
- T100 100-pin connector

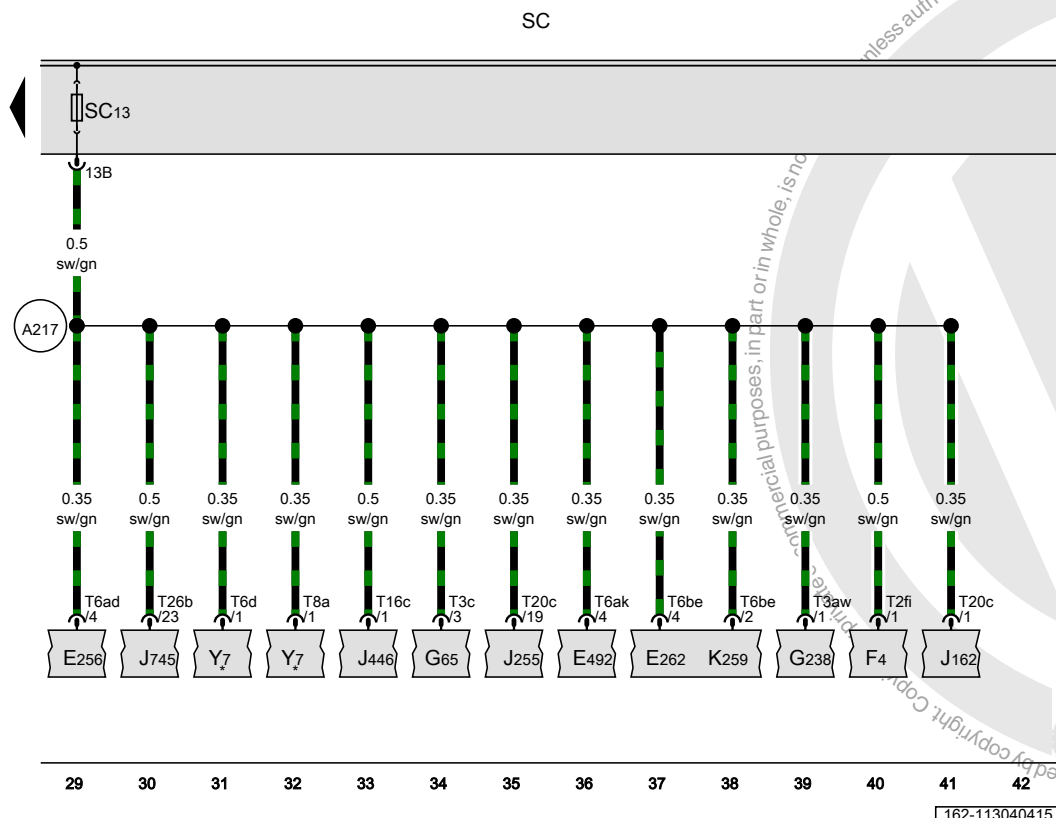
- A200 Positive connection 5 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B171 Positive connection 3 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

- * Only for vehicles without hybrid drive
- *2 Refer to applicable airbag wiring diagram
- *3 Only for vehicles with Start/Stop system
- *4 only for vehicles with hybrid drive

Fuse panel C

- E256 ASR/ESP button
- E262 Start/Stop mode switch
- E492 Tire pressure monitoring display button
- F4 Back-up lamp switch
- G65 High pressure sensor
- G238 Air quality sensor
- J162 Heater control module
- J255 Climatronic control module
- J446 Parking aid control module
- J745 Cornering lamp and headlamp range control module
- K259 Start/Stop mode indicator lamp
- SC Fuse panel C
- SC13 Fuse 13 (on fuse panel C)
- T2fi Double connector
- T3aw 3-pin connector
- T3c 3-pin connector
- T6ad 6-pin connector
- T6ak 6-pin connector
- T6be 6-pin connector
- T6d 6-pin connector
- T8a 8-pin connector
- T16c 16-pin connector
- T20c 20-pin connector
- T26b 26-pin connector
- Y7 Automatic dimming interior rearview mirror
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- * Depending on equipment



- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

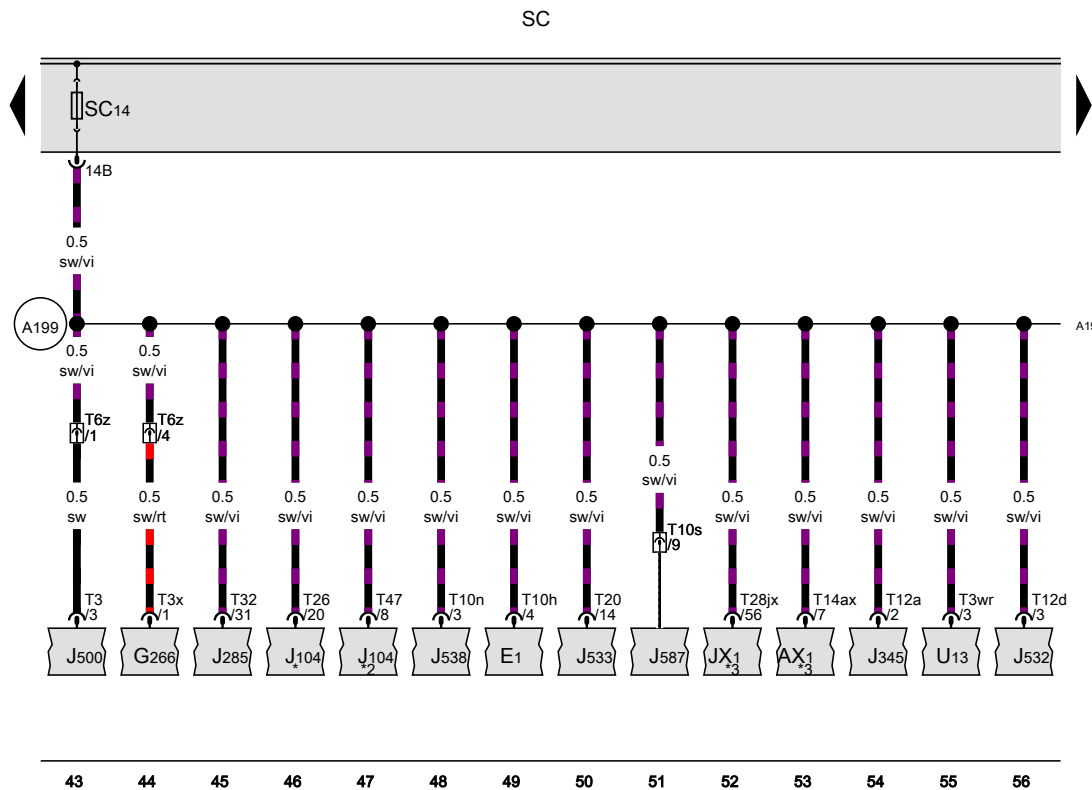
Fuse panel C

- AX1 Hybrid battery unit
- E1 Light switch
- G266 Oil level thermal sensor
- JX1 Electric drive power and control electronics
- J104 ABS control module
- J285 Instrument cluster control module
- J345 Towing recognition control module
- J500 Power steering control module
- J532 Voltage stabilizer
- J533 Data bus on board diagnostic interface
- J538 Fuel pump control module
- J587 Selector lever sensor system control module
- SC Fuse panel C
- SC14 Fuse 14 (on fuse panel C)
- T3 3-pin connector
- T3wr 3-pin connector
- T3x 3-pin connector
- T6z 6-pin connector
- T10h 10-pin connector
- T10n 10-pin connector
- T10s 10-pin connector
- T12a 12-pin connector
- T12d 12-pin connector
- T14ax 14-pin connector
- T20 20-pin connector
- T26 26-pin connector
- T28jx 28-pin connector
- T32 32-pin connector
- T47 47-pin connector
- U13 Converter with socket, 12 V-230 V

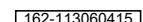
A199 Positive connection 4 (15a) (in instrument panel wiring harness)

- * Only for vehicles with ABS and without ESP
- *2 Only for vehicles with ABS and ESP
- *3 only for vehicles with hybrid drive

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



162-113050415



Fuse panel C

- 04.2015

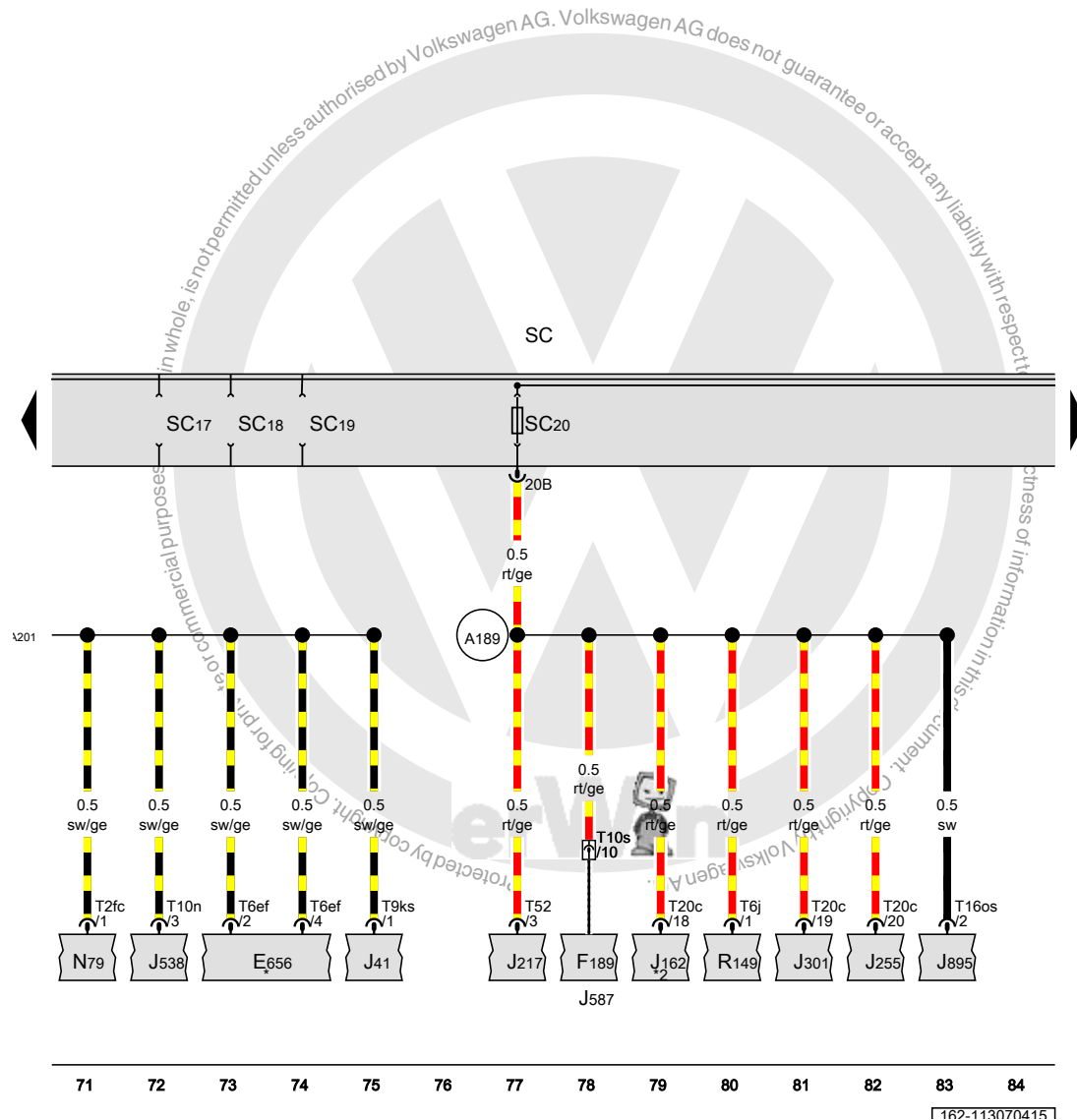
Fuse panel C

- E656 Electrical drive button
- F189 tiptronic switch
- J41 Cold start injector relay
- J162 Heater control module
- J217 Transmission control module
- J255 Climatronic control module
- J301 A/C control module
- J538 Fuel pump control module
- J587 Selector lever sensor system control module
- J895 Vehicle positioning system control module
- N79 Positive crankcase ventilation heating element
- R149 Auxiliary engine coolant heater radio frequency receiver
- SC Fuse panel C
- SC17 Fuse 17 (on fuse panel C)
- SC18 Fuse 18 (on fuse panel C)
- SC19 Fuse 19 (on fuse panel C)
- SC20 Fuse 20 (on fuse panel C)
- T2fc Double connector
- T6ef 6-pin connector
- T6j 6-pin connector
- T9ks 9-pin connector
- T10n 10-pin connector
- T10s 10-pin connector
- T16os 16-pin connector
- T20c 20-pin connector
- T52 52-pin connector

A189 Positive connection 5 (30a) (in instrument panel wiring harness)




A201 Positive connection 6 (15a) (in instrument panel wiring harness)

- * only for vehicles with hybrid drive
- *2 Only for vehicles with auxiliary coolant heater



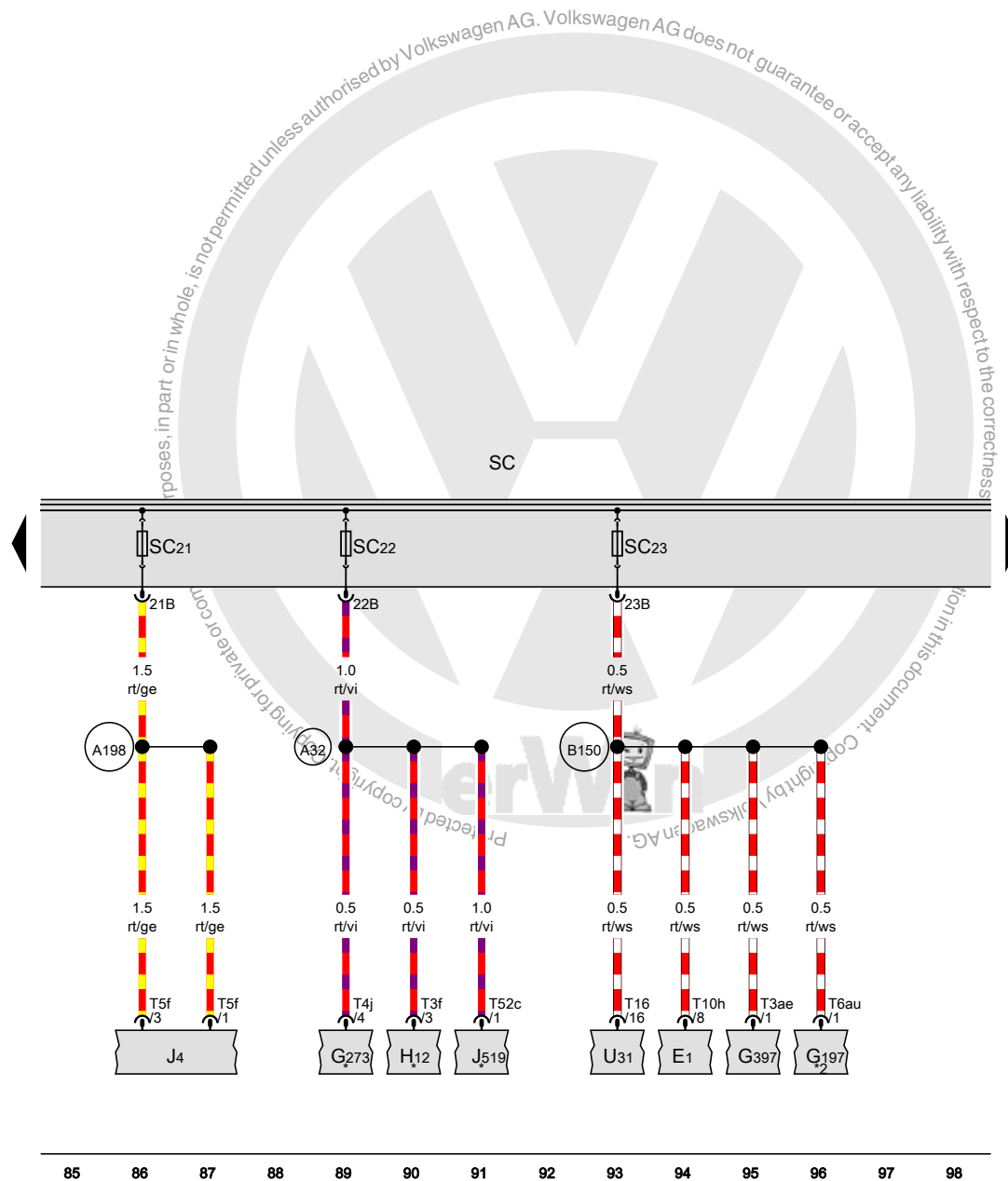
Fuse panel C

- E1 Light switch
- G197 Compass magnetic field sensor
- G273 Interior monitoring sensor
- G397 Rain/light recognition sensor
- H12 Alarm horn
- J4 Dual tone horn relay
- J519 Vehicle electrical control module system
- SC Fuse panel C
- SC21 Fuse 21 (on fuse panel C)
- SC22 Fuse 22 (on fuse panel C)
- SC23 Fuse 23 (on fuse panel C)
- T3ae 3-pin connector
- T3f 3-pin connector
- T4j 4-pin connector
- T5f 5-pin connector
- T6au 6-pin connector
- T10h 10-pin connector
- T16 16-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection

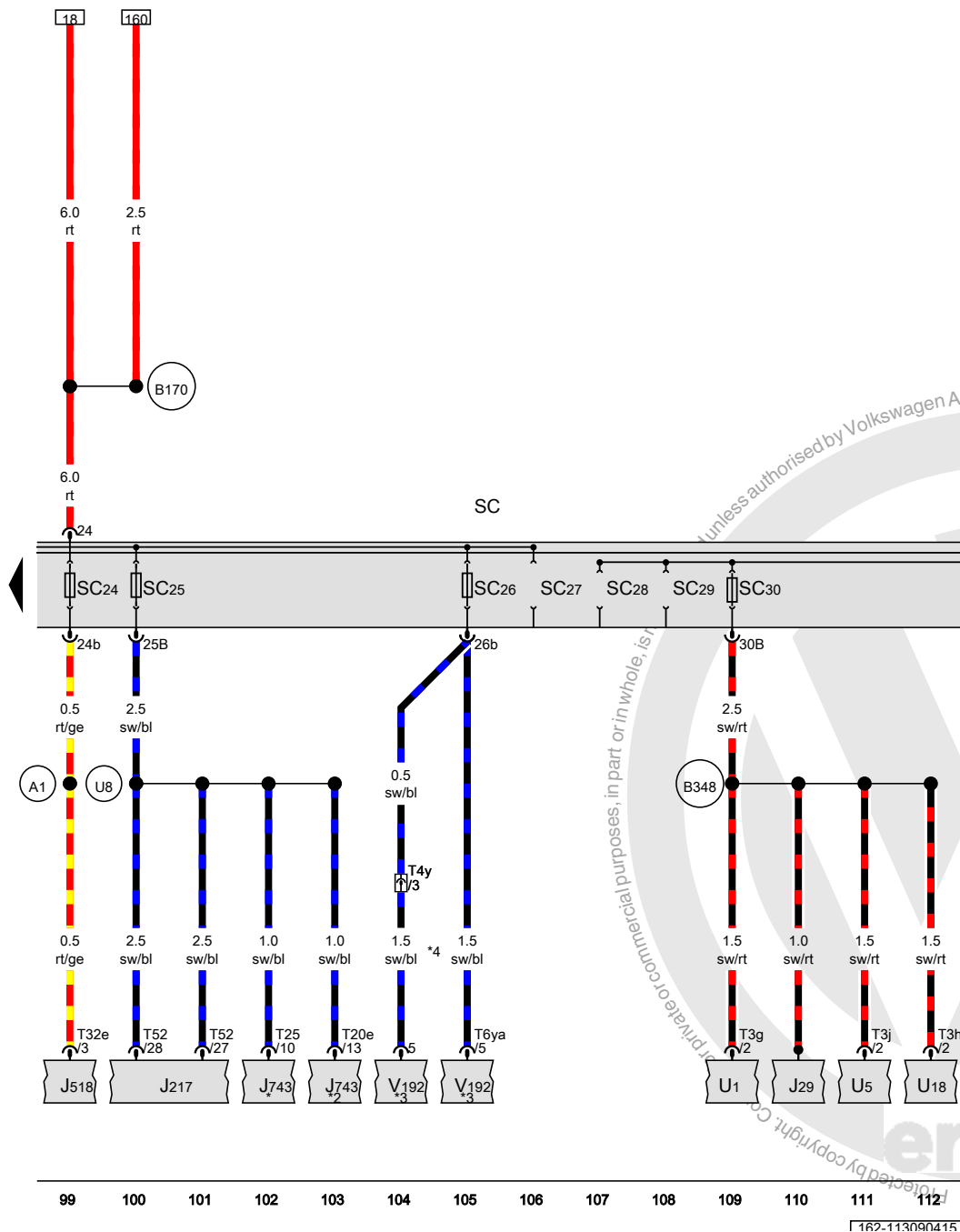
-  A32 Positive connection (30) (in instrument panel wiring harness)
-  A198 Positive connection 6 (30a) (in instrument panel wiring harness)
-  B150 Positive connection 2 (30a) (in interior wiring harness)

- * Not for USA
- *2 Only for vehicles without Start/Stop system

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



162-113080415



Fuse panel C

| | |
|------|---|
| J29 | Blocking diode |
| J217 | Transmission control module |
| J518 | Access/start authorization control module |
| J743 | DSG transmission Mechatronic |
| SC | Fuse panel C |
| SC24 | Fuse 24 (on fuse panel C) |
| SC25 | Fuse 25 (on fuse panel C) |
| SC26 | Fuse 26 (on fuse panel C) |
| SC27 | Fuse 27 (on fuse panel C) |
| SC28 | Fuse 28 (on fuse panel C) |
| SC29 | Fuse 29 (on fuse panel C) |
| SC30 | Fuse 30 (on fuse panel C) |
| T3g | 3-pin connector |
| T3h | 3-pin connector |
| T3j | 3-pin connector |
| T4y | 4-pin connector |
| T6ya | 6-pin connector |
| T20e | 20-pin connector |
| T25 | 25-pin connector |
| T32e | 32-pin connector |
| T52 | 52-pin connector |
| U1 | Cigarette lighter |
| U5 | 12 V socket |
| U18 | 12 V socket 2 |
| V192 | Brake system vacuum pump |

A1 Positive connection (30a) (in instrument panel wiring harness)

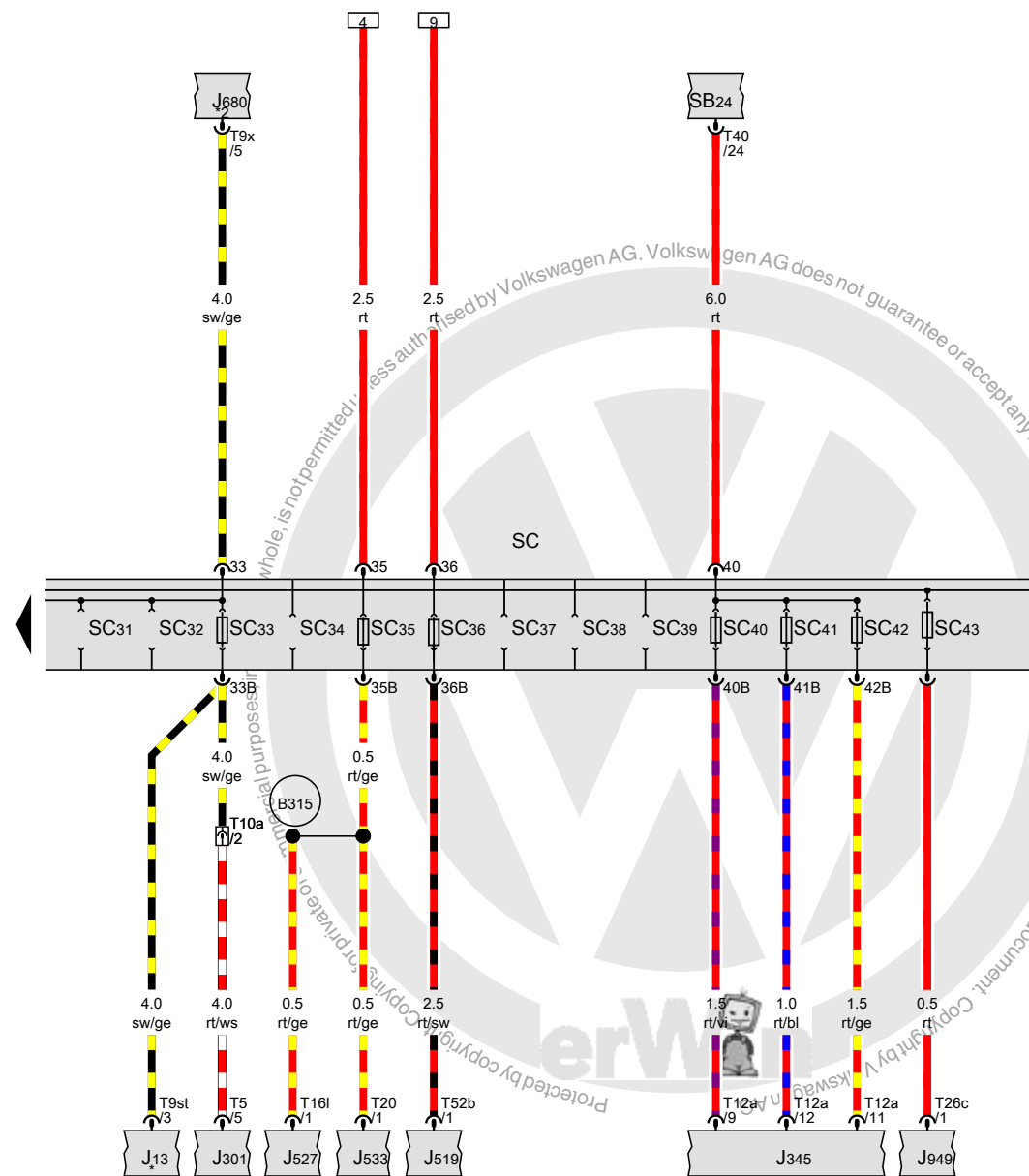
B170 Positive connection 2 (30) (in interior wiring harness)

B348 Connection 75a (in main wiring harness) 1

U8 Positive connection (15a) (in automatic transmission wiring harness)

- * Only for vehicles with DSG transmission 0AM
- *2 Only for vehicles with DSG transmission 02E
- *3 Depending on equipment
- *4 Only for vehicles with automatic transmission

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Fuse panel C

- J13 Fresh air blower relay
- J301 A/C control module
- J345 Towing recognition control module
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- J533 Data bus on board diagnostic interface
- J680 Terminal 75 power supply relay 1
- J949 Control module for emergency call module and communication unit

SB24 Fuse 24 (on fuse panel B)

SC Fuse panel C

SC31 Fuse 31 (on fuse panel C)

SC32 Fuse 32 (on fuse panel C)

SC33 Fuse 33 (on fuse panel C)

SC34 Fuse 34 (on fuse panel C)

SC35 Fuse 35 (on fuse panel C)

SC36 Fuse 36 (on fuse panel C)

SC37 Fuse 37 (on fuse panel C)

SC38 Fuse 38 (on fuse panel C)

SC39 Fuse 39 (on fuse panel C)

SC40 Fuse 40 (on fuse panel C)

SC41 Fuse 41 (on fuse panel C)

SC42 Fuse 42 (on fuse panel C)

SC43 Fuse 43 (on fuse panel C)

T5 5-pin connector

T9st 9-pin connector

T9x 9-pin connector

T10a 10-pin connector

T12a 12-pin connector

T16l 16-pin connector

T20 20-pin connector

T26c 26-pin connector

T40 40-pin connector

T52b 52-pin connector

B315 Positive connection 1 (30a) (in main wiring harness)

* Only for vehicles with an auxiliary heater

*2 Refer to applicable standard equipment wiring diagram

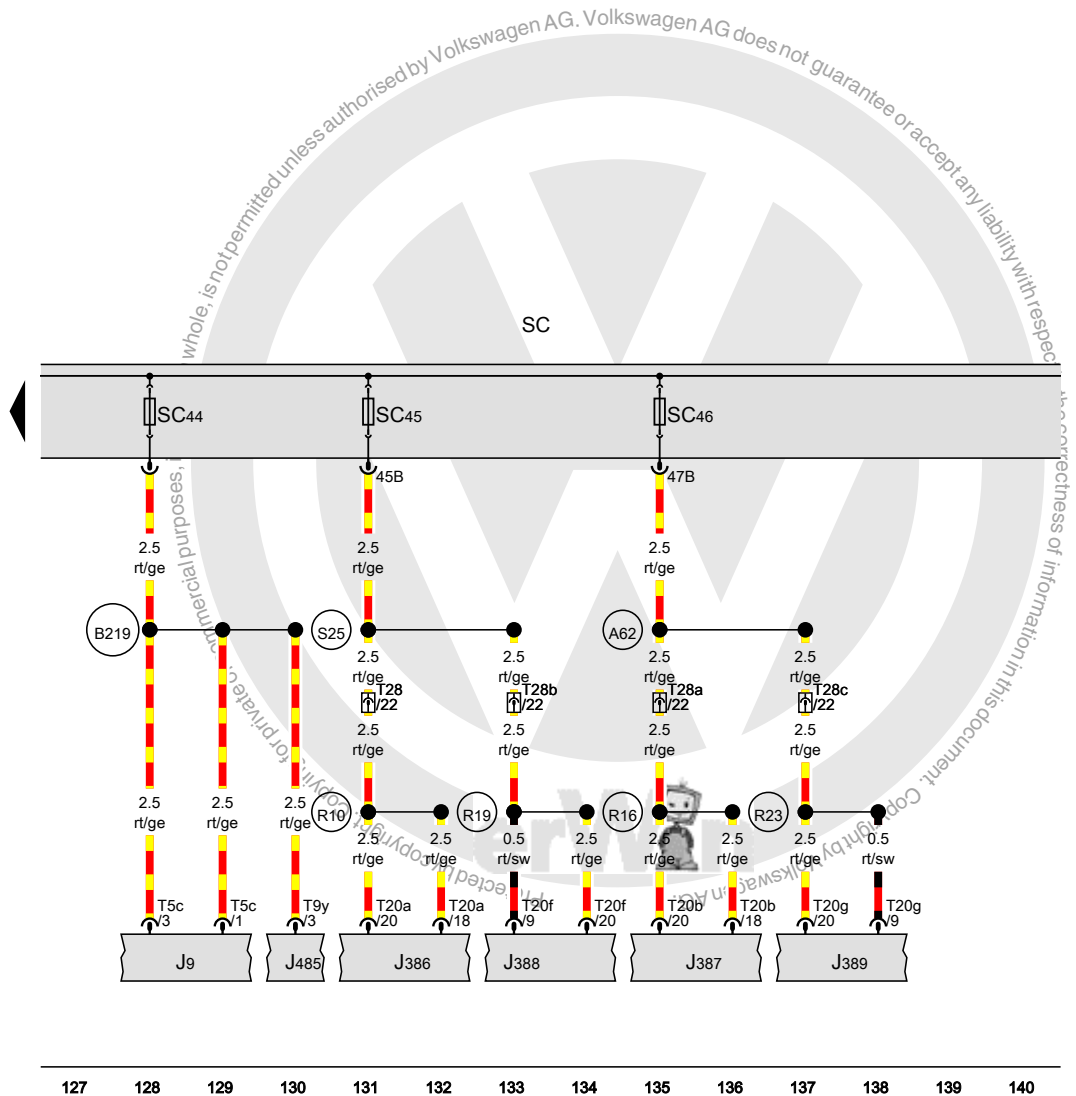
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

Fuse panel C

- J9 Rear window defogger relay
- J386 Driver door control module
- J387 Front passenger door control module
- J388 Left rear door control module
- J389 Right rear door control module
- J485 Auxiliary heater operation relay
- SC Fuse panel C
- SC44 Fuse 44 (on fuse panel C)
- SC45 Fuse 45 (on fuse panel C)
- SC46 Fuse 46 (on fuse panel C)
- T5c 5-pin connector
- T9y 9-pin connector
- T20a 20-pin connector
- T20b 20-pin connector
- T20f 20-pin connector
- T20g 20-pin connector
- T28 28-pin connector
- T28a 28-pin connector
- T28b 28-pin connector
- T28c 28-pin connector

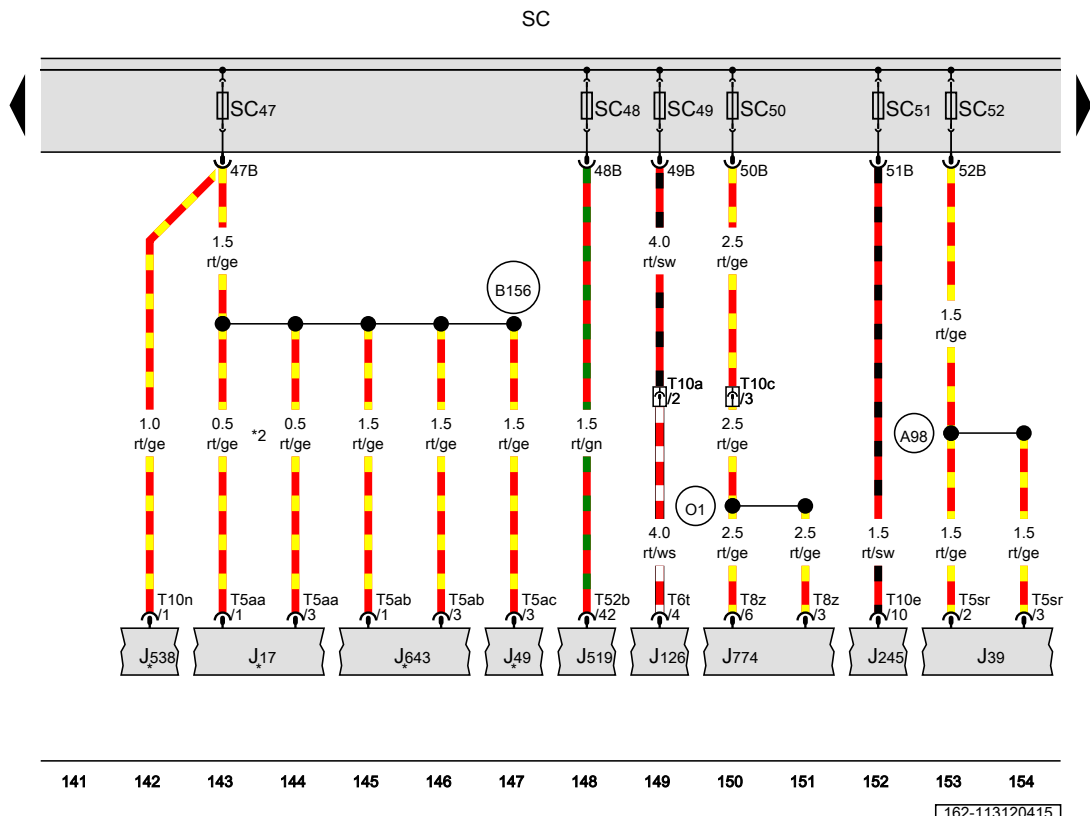
- A62 Power window connection (in instrument panel wiring harness)
- B219 Positive connection 4 (30a) (in interior wiring harness)
- R10 Positive connection 1 (30) (in driver door wiring harness)
- R16 Positive connection 1 (30) (in front passenger door wiring harness)
- R19 Positive connection 1 (30) (in left rear door wiring harness)
- R23 Positive connection 1 (30) (in right rear door wiring harness)
- S25 Positive connection (30a) (in central locking system wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



127 128 129 130 131 132 133 134 135 136 137 138 139 140

[162-113110415]



Fuse panel C

- J17 Fuel pump relay
- J39 Headlamp washer relay
- J49 Fuel pump relay 2
- J126 Fresh air blower control module
- J245 Power sunroof control module
- J519 Vehicle electrical control module system
- J538 Fuel pump control module
- J643 Fuel primer relay
- J774 Front seat heating control module
- SC Fuse panel C
- SC47 Fuse 47 (on fuse panel C)
- SC48 Fuse 48 (on fuse panel C)
- SC49 Fuse 49 (on fuse panel C)
- SC50 Fuse 50 (on fuse panel C)
- SC51 Fuse 51 (on fuse panel C)
- SC52 Fuse 52 (on fuse panel C)
- T5aa 5-pin connector
- T5ab 5-pin connector
- T5ac 5-pin connector
- T5sr 5-pin connector
- T6t 6-pin connector
- T8z 8-pin connector
- T10a 10-pin connector
- T10c 10-pin connector
- T10e 10-pin connector
- T10n 10-pin connector
- T52b 52-pin connector

A98 Positive connection 4 (30) (in instrument panel wiring harness)

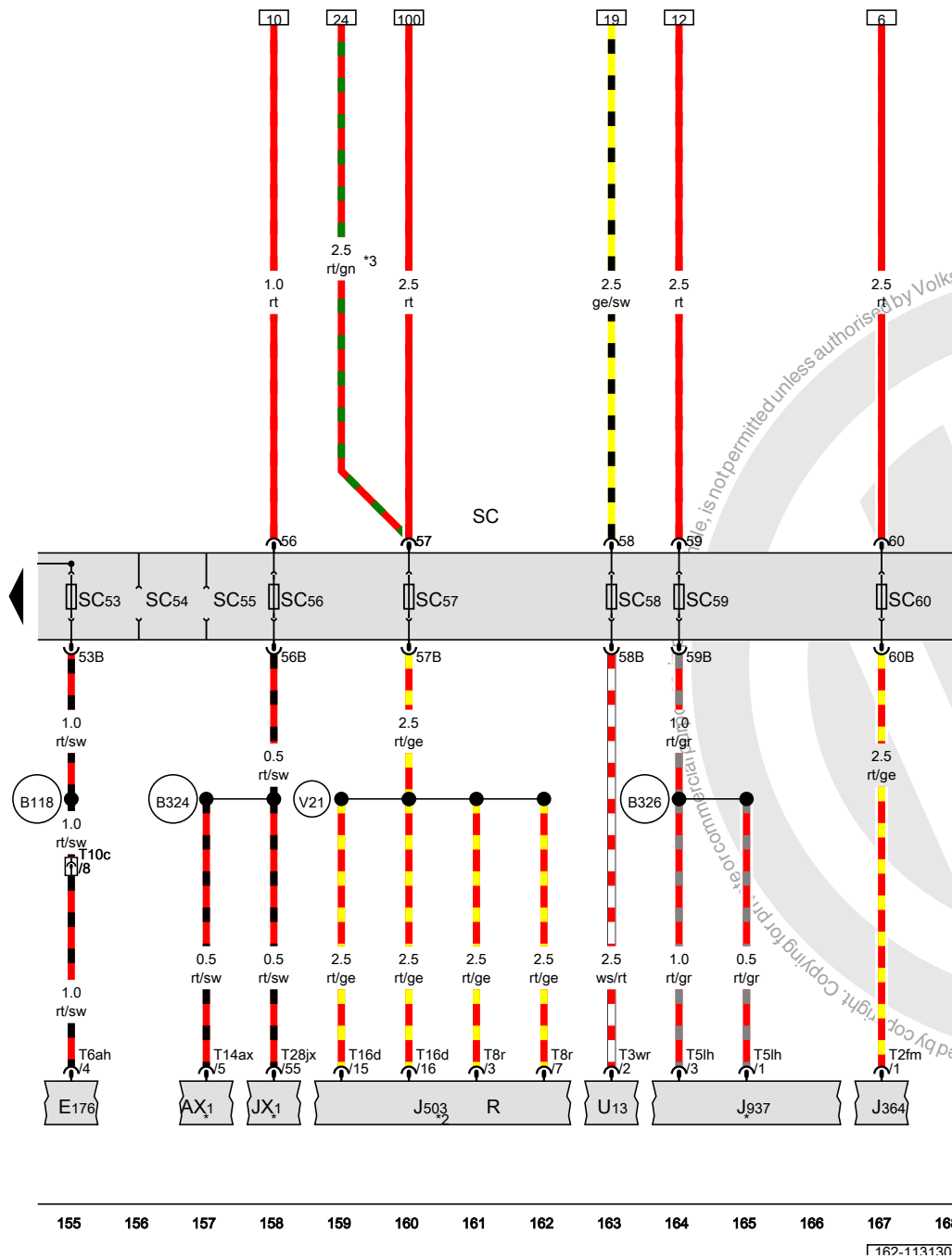
B156 Positive connection (30a) (in interior wiring harness)

O1 Positive connection (30) (in heated seats wiring harness)

* Refer to applicable engine wiring diagram

*2 Depending on equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Fuse panel C

- AX1 Hybrid battery unit
- E176 Driver seat lumbar support adjustment switch
- JX1 Electric drive power and control electronics
- J364 Auxiliary heater control module
- J503 Radio/navigation display unit control module
- J937 Fan activation relay
- R Radio
- SC Fuse panel C
- SC53 Fuse 53 (on fuse panel C)
- SC54 Fuse 54 (on fuse panel C)
- SC55 Fuse 55 (on fuse panel C)
- SC56 Fuse 56 (on fuse panel C)
- SC57 Fuse 57 (on fuse panel C)
- SC58 Fuse 58 (on fuse panel C)
- SC59 Fuse 59 (on fuse panel C)
- SC60 Fuse 60 (on fuse panel C)
- T2fm Double connector
- T3wr 3-pin connector
- T5lh 5-pin connector
- T6ah 6-pin connector
- T8r 8-pin connector
- T10c 10-pin connector
- T14ax 14-pin connector
- T16d 16-pin connector
- T28jx 28-pin connector
- U13 Converter with socket, 12 V-230 V

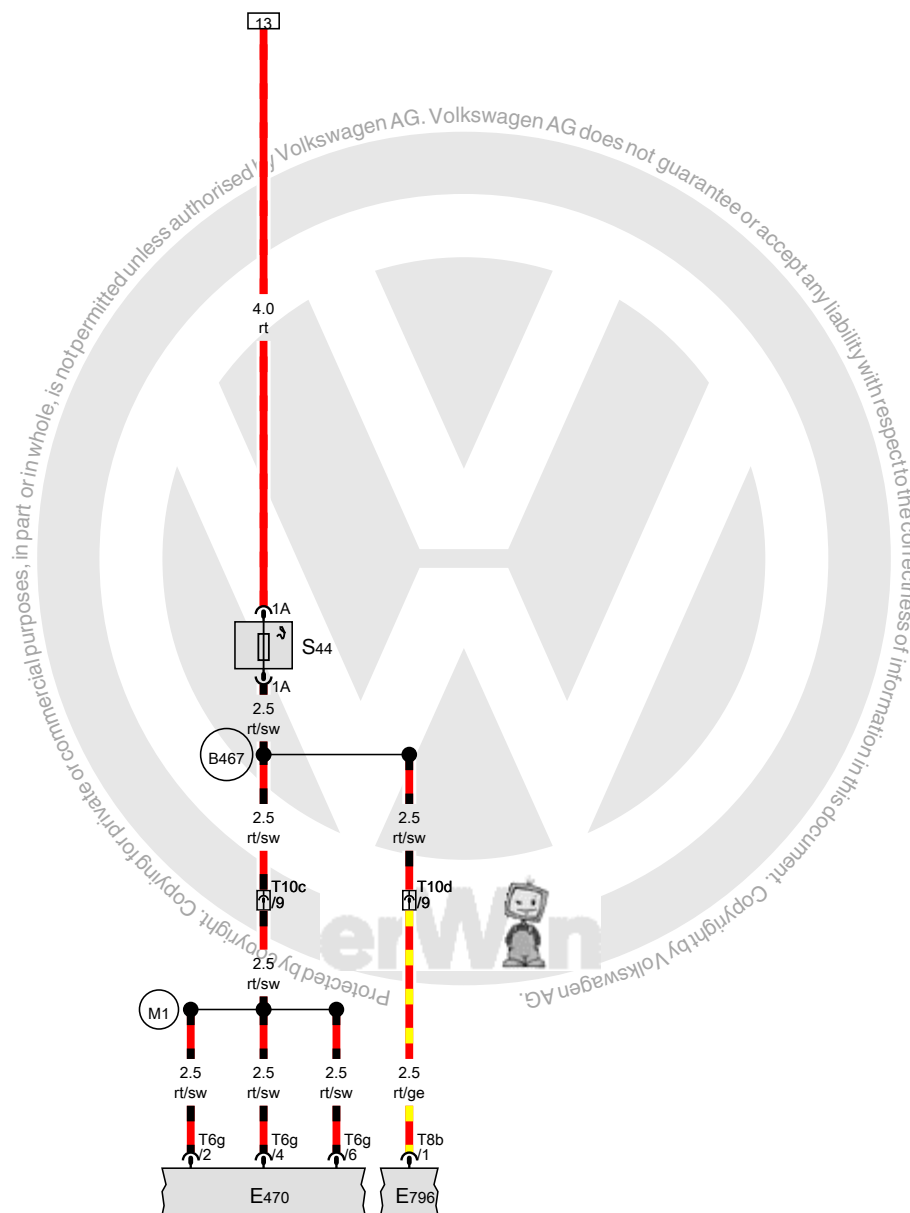
- B118 Driver seat adjustment connection (in interior wiring harness)
- B324 Positive connection 10 (30a) (in main wiring harness)
- B326 Positive connection 12 (30a) (in main wiring harness)
- V21 Positive connection (30) (in wiring radio/amplifier wiring harness)

- * only for vehicles with hybrid drive
- *2 Depending on equipment
- *3 Only for vehicles with Start/Stop system

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

155 156 157 158 159 160 161 162 163 164 165 166 167 168

[162-113130415]



Driver power seat adjustment circuit breaker 1

- E470 Driver seat adjustment control head
- E796 Backrest adjustment button 2
- S44 Driver power seat adjustment circuit breaker 1
- T6g 6-pin connector
- T8b 8-pin connector
- T10c 10-pin connector
- T10d 10-pin connector

B467 Connection 3 (in main wiring harness)

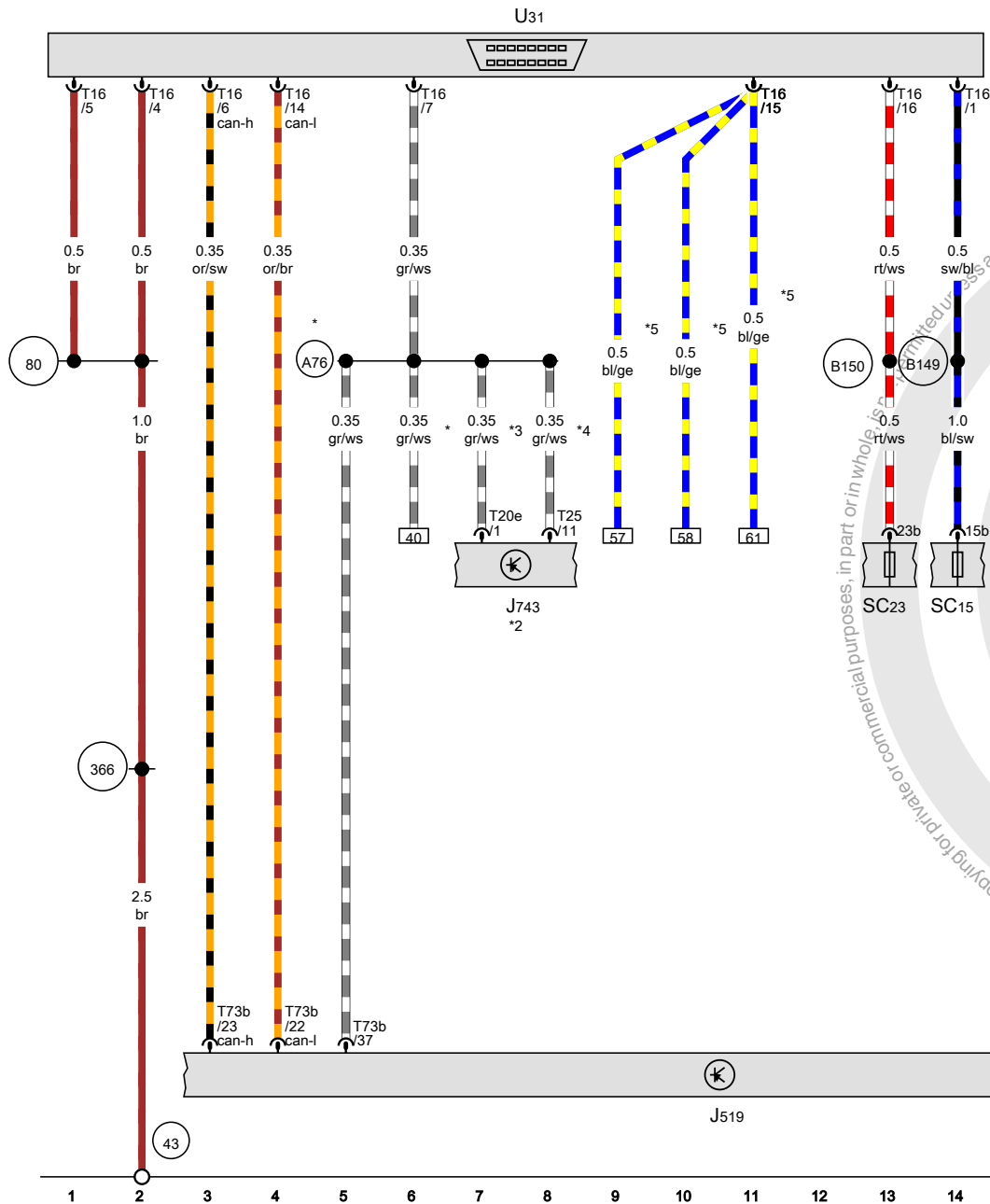
M1 Positive connection 1 (30) (in seat adjustment wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Network data bus , (AW0)

from May 2013





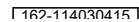
Diagnostic connection

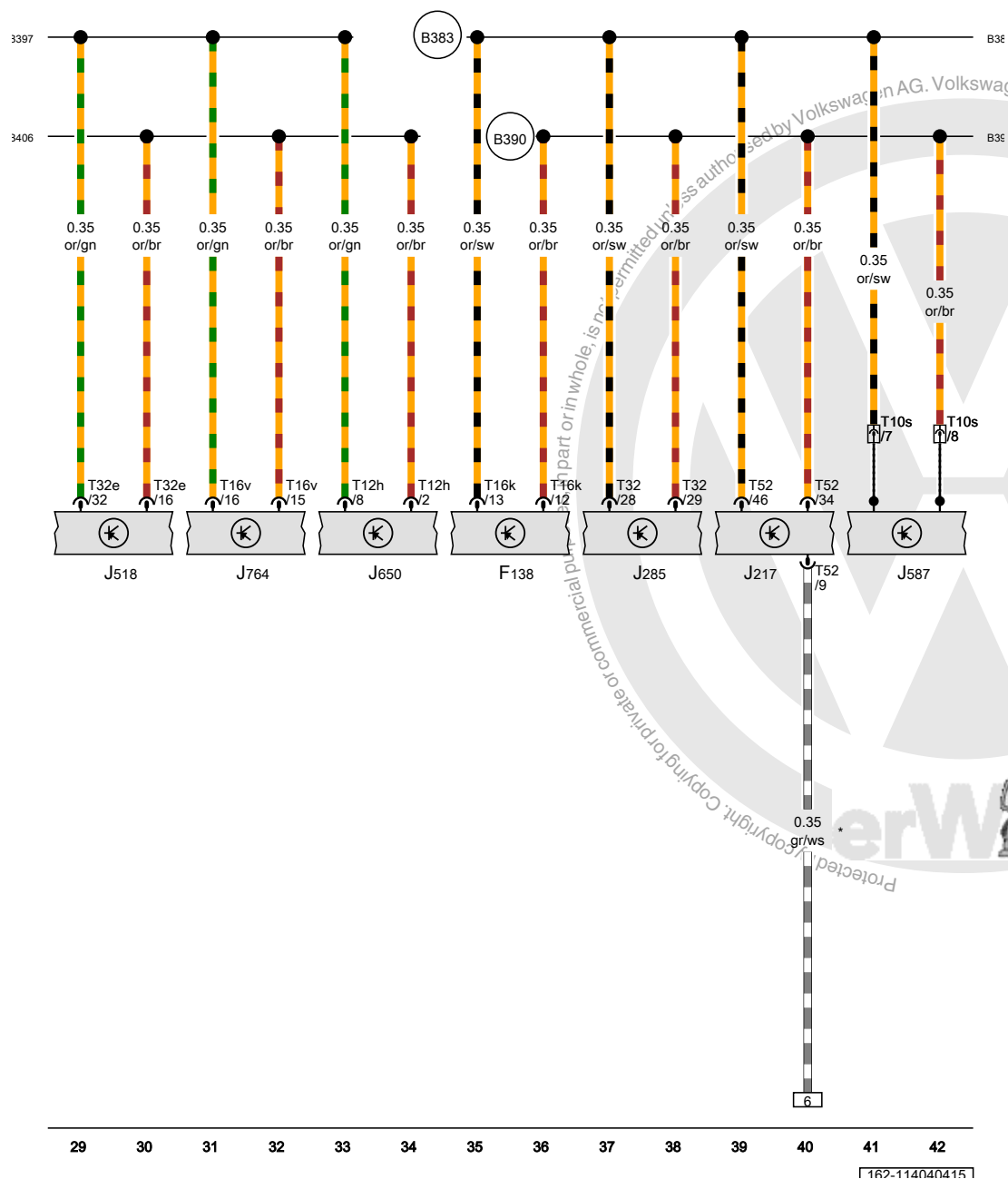
- J519 Vehicle electrical control module system
- J743 DSG transmission Mechatronic
- SC15 Fuse 15 (on fuse panel C)
- SC23 Fuse 23 (on fuse panel C)
- T16 16-pin connector
- T20e 20-pin connector
- T25 25-pin connector
- T73b 73-pin connector
- U31 Diagnostic connection

- 43 Ground connection on A-pillar, lower right
- 80 Ground connection 1 (in instrument cluster wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- A76 KS-diagnostic lead connection (in instrument panel wiring harness)
- B149 Positive connection 2 (15a) (in interior wiring harness)
- B150 Positive connection 2 (30a) (in interior wiring harness)
- * Refer to applicable wiring diagram for automatic transmission
- *2 Refer to applicable wiring diagram for DSG transmission
- *3 Only for vehicles with DSG transmission 02E
- *4 Only for vehicles with DSG transmission 0AM
- *5 Refer to applicable airbag wiring diagram

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

162-114020415





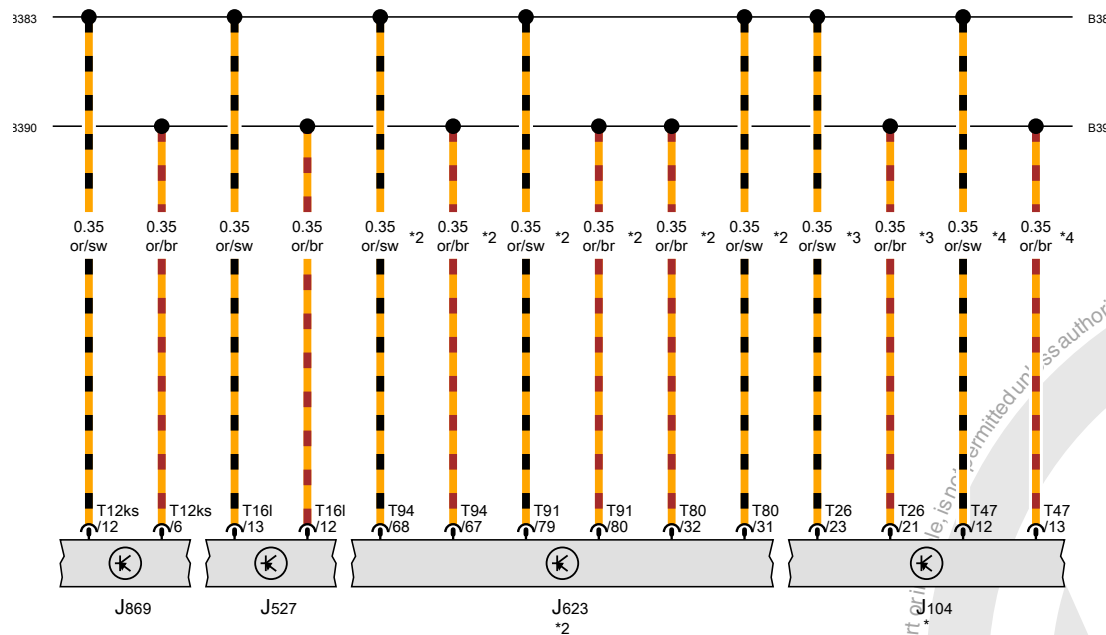
Powertrain CAN bus high connection 1 (in main wiring harness), Powertrain CAN bus low connection 1 (in main wiring harness), Comfort system CAN bus high connection 1 (in main wiring harness), Comfort system CAN bus low connection 1 (in main wiring harness)

- F138 Airbag spiral spring/return spring with slip ring
- J217 Transmission control module
- J285 Instrument cluster control module
- J518 Access/start authorization control module
- J587 Selector lever sensor system control module
- J650 Multimedia system control module
- J764 Electronic steering column lock control module
- T10s 10-pin connector
- T12h 12-pin connector
- T16k 16-pin connector
- T16v 16-pin connector
- T32 32-pin connector
- T32e 32-pin connector
- T52 52-pin connector

- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

* Refer to applicable wiring diagram for automatic transmission

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Powertrain CAN bus high connection 1 (in main wiring harness), Powertrain CAN bus low connection 1 (in main wiring harness)

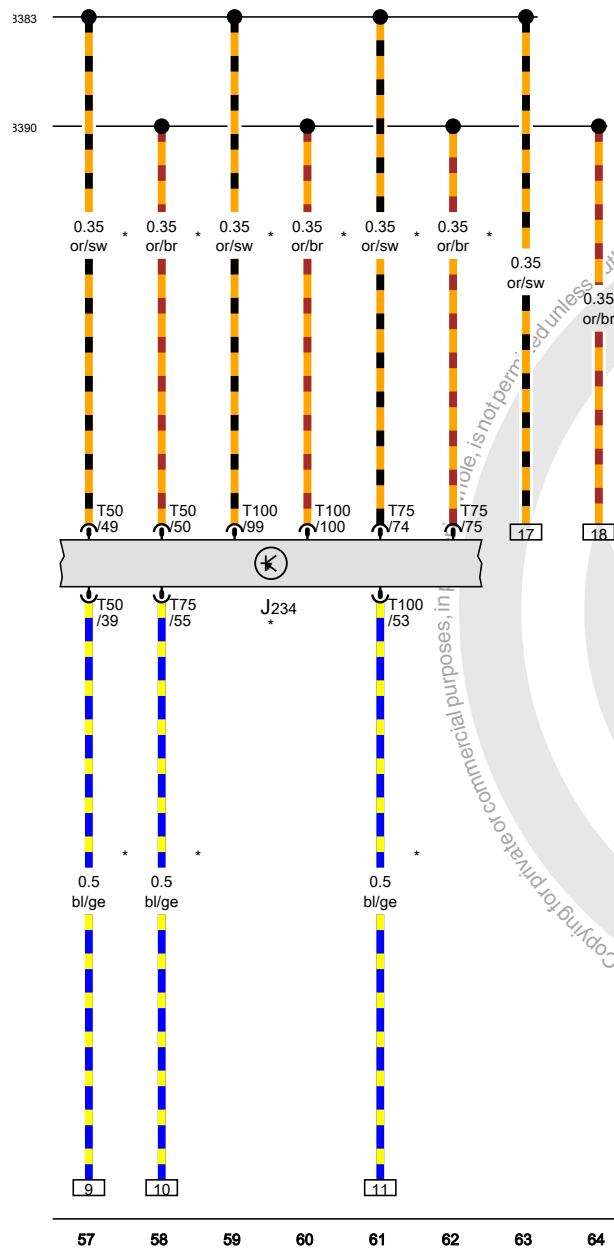
- J104 ABS control module
- J527 Steering column electronics control module
- J623 Engine control module
- J869 Structure borne sound control module
- T12ks 12-pin connector
- T16l 16-pin connector
- T26 26-pin connector
- T47 47-pin connector
- T80 80-pin connector
- T91 91-pin connector
- T94 94-pin connector

B383 Powertrain CAN bus high connection 1 (in main wiring harness)

B390 Powertrain CAN bus low connection 1 (in main wiring harness)

- * Refer to applicable wiring diagram for ABS
- *2 Refer to applicable engine wiring diagram
- *3 Only for vehicles with ABS without ESP
- *4 Only for vehicles with ABS and ESP

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Powertrain CAN bus high connection 1 (in main wiring harness), Powertrain CAN bus low connection 1 (in main wiring harness)

- J234 Airbag control module
- T50 50-pin connector
- T75 75-pin connector
- T100 100-pin connector

B383 Powertrain CAN bus high connection 1 (in main wiring harness)

B390 Powertrain CAN bus low connection 1 (in main wiring harness)

* Refer to applicable airbag wiring diagram

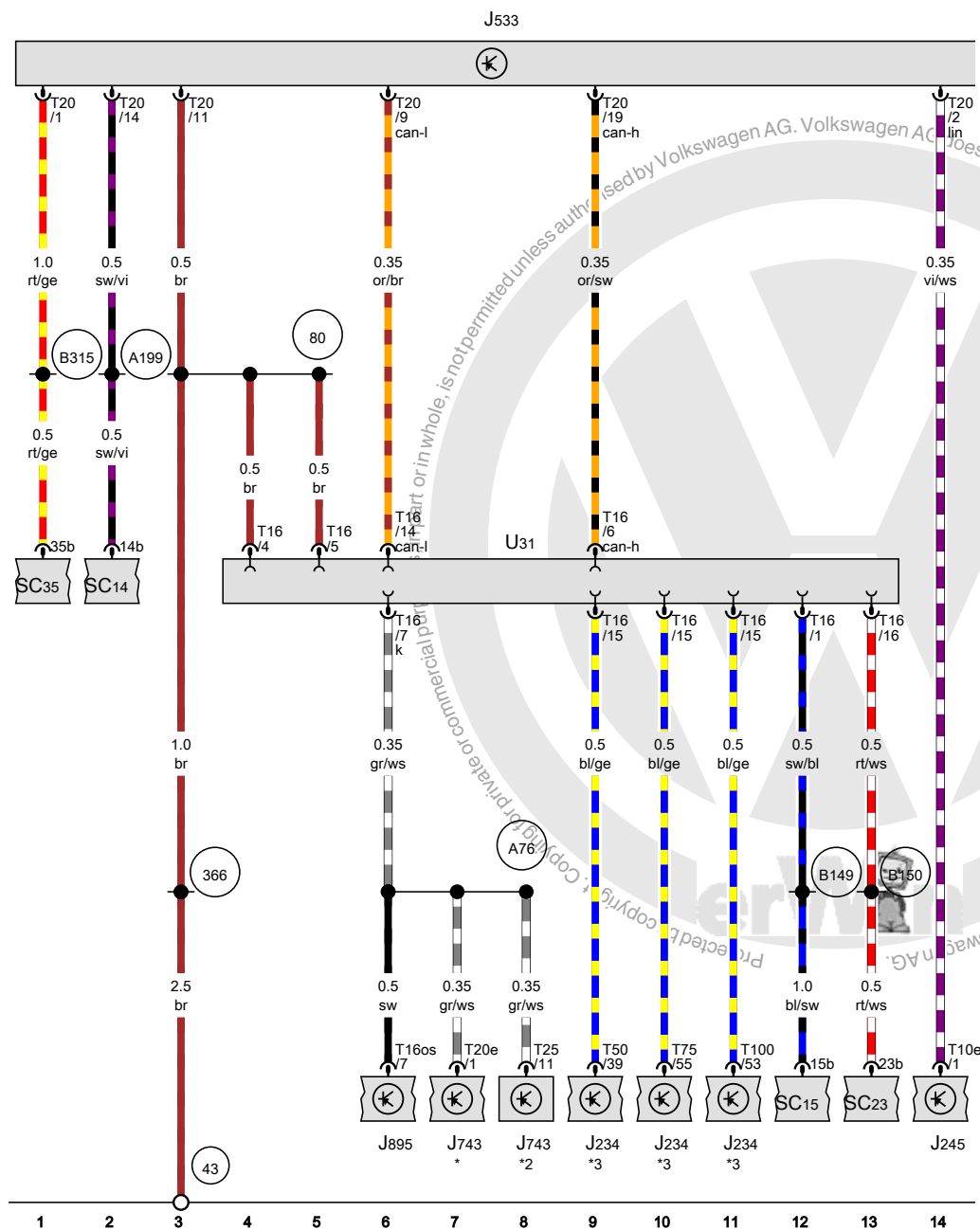
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Network data bus , (AW1)

from May 2013



Data bus on board diagnostic interface, Diagnostic connection



- J234 Airbag control module
- J245 Power sunroof control module
- J533 Data bus on board diagnostic interface
- J743 DSG transmission Mechatronic
- J895 Vehicle positioning system control module
- SC14 Fuse 14 (on fuse panel C)
- SC15 Fuse 15 (on fuse panel C)
- SC23 Fuse 23 (on fuse panel C)
- SC35 Fuse 35 (on fuse panel C)
- T10e 10-pin connector
- T16 16-pin connector
- T16os 16-pin connector
- T20 20-pin connector
- T20e 20-pin connector
- T25 25-pin connector
- T50 50-pin connector
- T75 75-pin connector
- T100 100-pin connector
- U31 Diagnostic connection

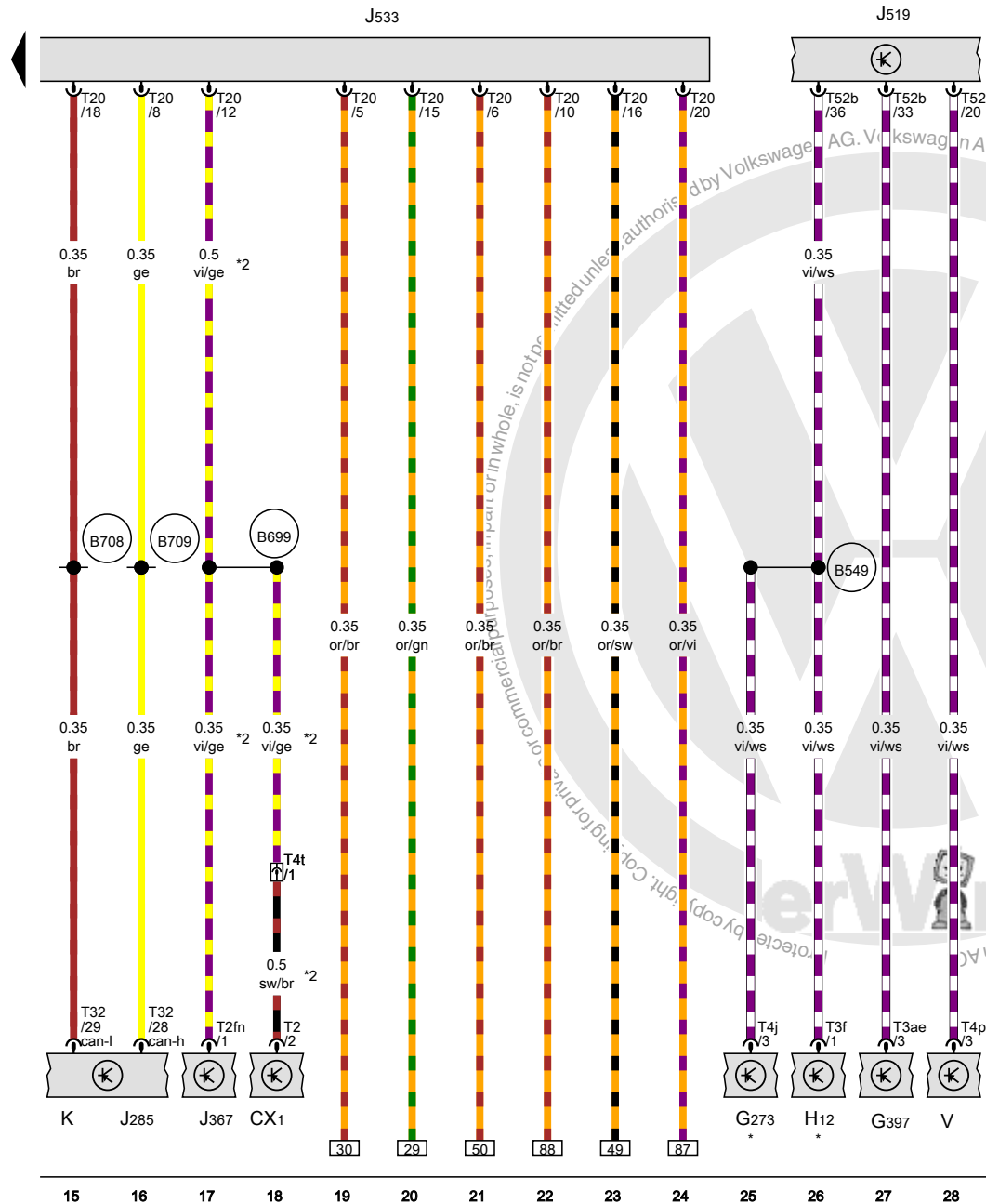
- 43 Ground connection on A-pillar, lower right
- 80 Ground connection 1 (in instrument cluster wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- A76 KS-diagnostic lead connection (in instrument panel wiring harness)
- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- B149 Positive connection 2 (15a) (in interior wiring harness)
- B150 Positive connection 2 (30a) (in interior wiring harness)
- B315 Positive connection 1 (30a) (in main wiring harness)

- * Only for vehicles with DSG transmission 02E
- *2 Only for vehicles with DSG transmission 0AM
- *3 Refer to applicable airbag wiring diagram

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

162-115020415

Data bus on board diagnostic interface, LIN bus connection 4 (in main wiring harness)



- CX1 Generator with voltage regulator
- G273 Interior monitoring sensor
- G397 Rain/light recognition sensor
- H12 Alarm horn
- J285 Instrument cluster control module
- J367 Battery monitoring control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- K Instrument cluster
- T2 Double connector
- T2fn Double connector
- T3ae 3-pin connector
- T3f 3-pin connector
- T4j 4-pin connector
- T4p 4-pin connector
- T4t 4-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T52b 52-pin connector
- V Windshield wiper motor

B549 LIN bus connection 2 (in main wiring harness)

B699 LIN bus connection 4 (in main wiring harness)

B708 Instrument cluster CAN bus high connection 1 (in main wiring harness)

B709 Instrument cluster CAN bus low connection 1 (in main wiring harness)

* Not for USA

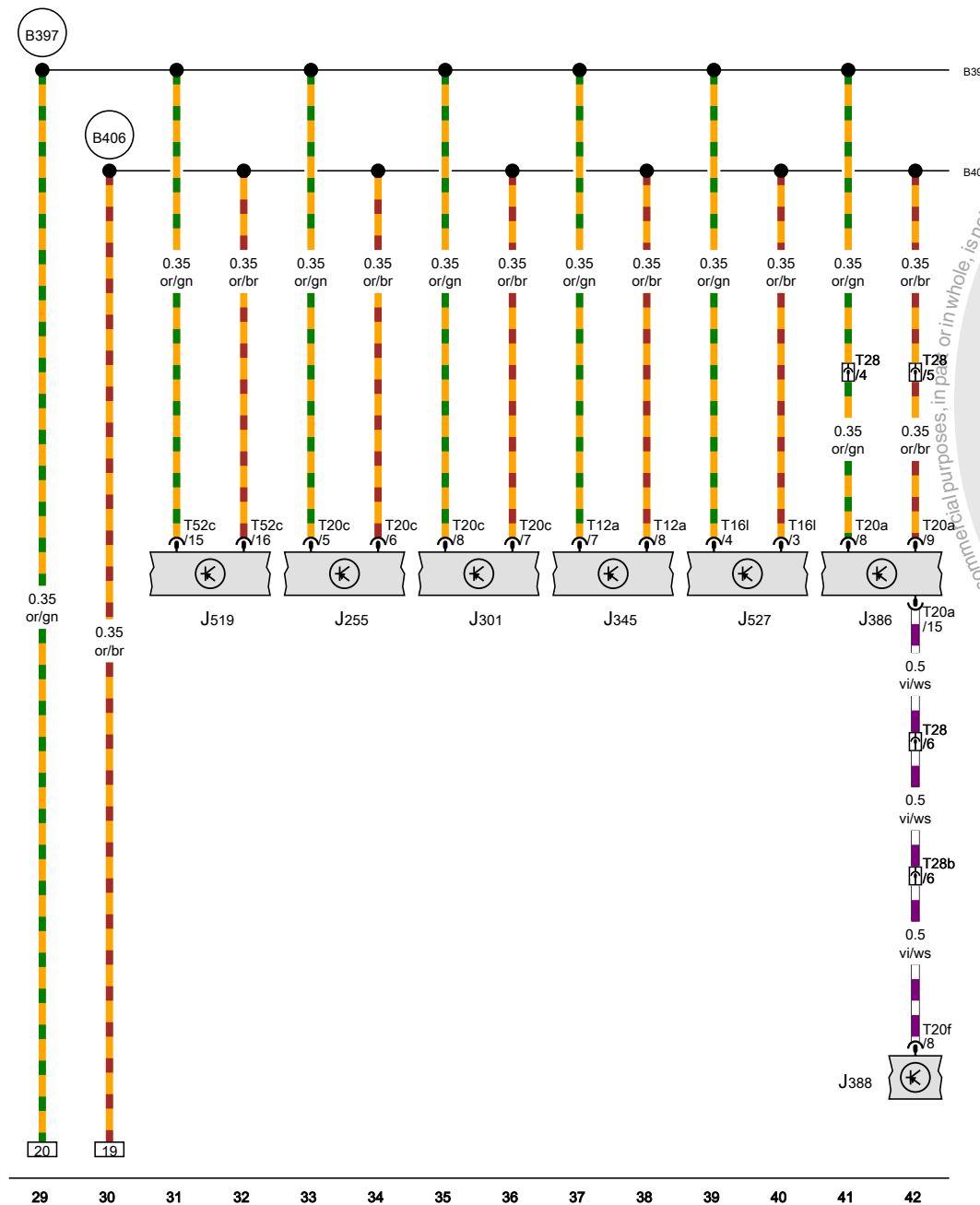
*2 Only for vehicles with Start/Stop system

Comfort system CAN bus high connection 1 (in main wiring harness), Comfort system CAN bus low connection 1 (in main wiring harness)

- J255 Climatronic control module
- J301 A/C control module
- J345 Towing recognition control module
- J386 Driver door control module
- J388 Left rear door control module
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- T12a 12-pin connector
- T16l 16-pin connector
- T20a 20-pin connector
- T20c 20-pin connector
- T20f 20-pin connector
- T28 28-pin connector
- T28b 28-pin connector
- T52c 52-pin connector

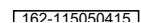
B397 Comfort system CAN bus high connection 1 (in main wiring harness)

B406 Comfort system CAN bus low connection 1 (in main wiring harness)

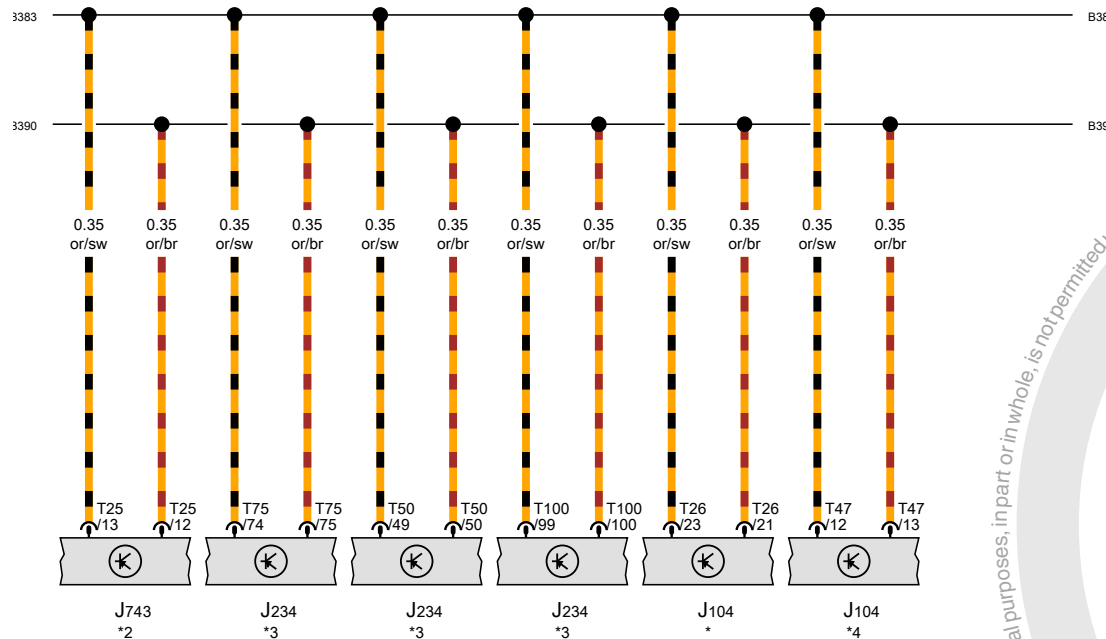


- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
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- rs = pink

162-11504015



ws = white
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gn = green
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vi = lilac
ge = yellow
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rs = pink



Powertrain CAN bus high connection 1 (in main wiring harness), Powertrain CAN bus low connection 1 (in main wiring harness)

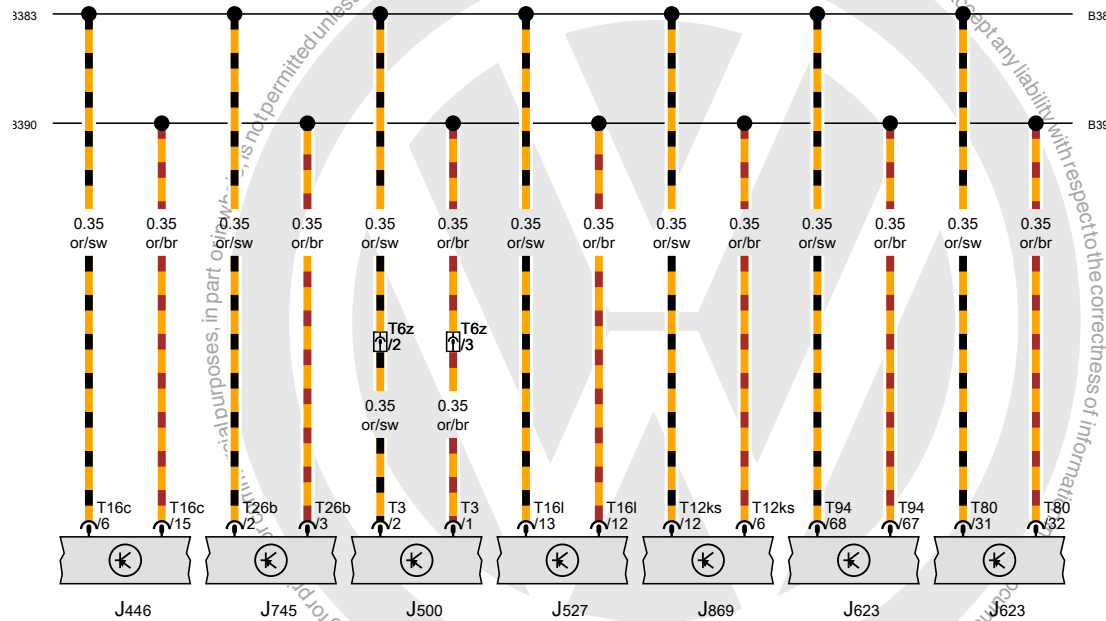
- J104 ABS control module
- J234 Airbag control module
- J743 DSG transmission Mechatronic
- T25 25-pin connector
- T26 26-pin connector
- T47 47-pin connector
- T50 50-pin connector
- T75 75-pin connector
- T100 100-pin connector

B383 Powertrain CAN bus high connection 1 (in main wiring harness)

B390 Powertrain CAN bus low connection 1 (in main wiring harness)

- * Only for vehicles with ABS without ESP
- *2 Only for vehicles with DSG transmission 0AM
- *3 Refer to applicable airbag wiring diagram
- *4 Only for vehicles with ABS and ESP

- ws = white
- sw = black
- ro = red
- rt = red
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- vi = lilac
- ge = yellow
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Powertrain CAN bus high connection 1 (in main wiring harness), Powertrain CAN bus low connection 1 (in main wiring harness)

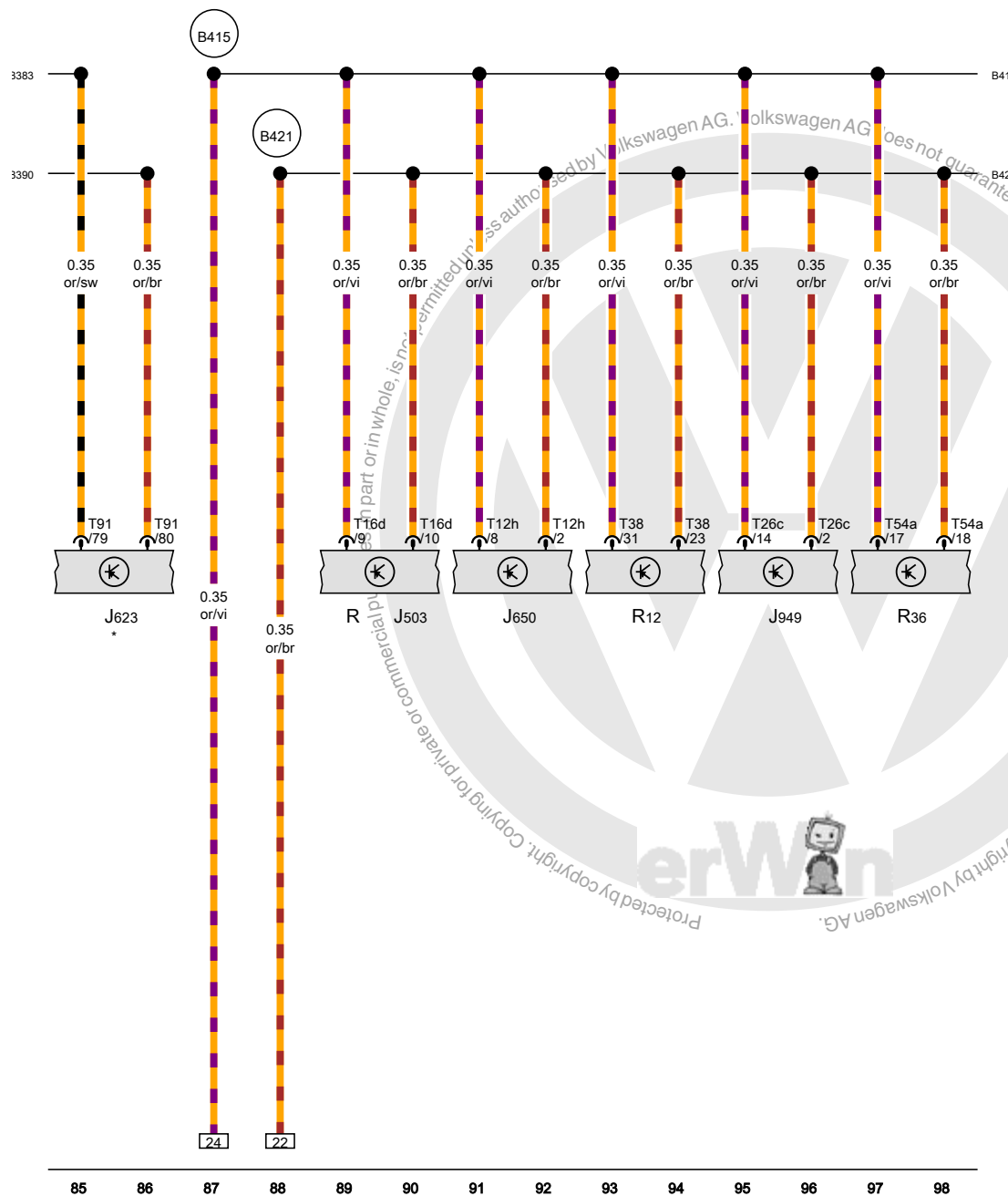
- J446 Parking aid control module
- J500 Power steering control module
- J527 Steering column electronics control module
- J623 Engine control module
- J745 Cornering lamp and headlamp range control module
- J869 Structure borne sound control module
- T3 3-pin connector
- T6z 6-pin connector
- T12ks 12-pin connector
- T16c 16-pin connector
- T16l 16-pin connector
- T26b 26-pin connector
- T80 80-pin connector
- T94 94-pin connector

B383 Powertrain CAN bus high connection 1 (in main wiring harness)

B390 Powertrain CAN bus low connection 1 (in main wiring harness)

* Refer to applicable engine wiring diagram

- ws = white
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- ro = red
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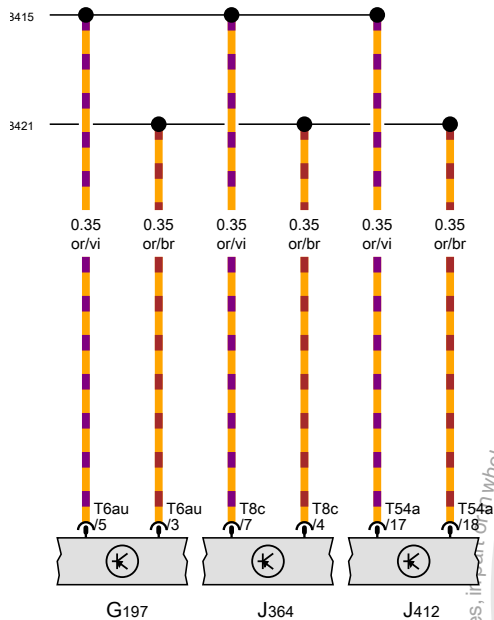
Powertrain CAN bus high connection 1 (in main wiring harness), Powertrain CAN bus low connection 1 (in main wiring harness), Infotainment CAN Bus high connection 1 (in main wiring harness), Infotainment CAN bus low connection 1 (in main wiring harness)

- J503 Radio/navigation display unit control module
- J623 Engine control module
- J650 Multimedia system control module
- J949 Control module for emergency call module and communication unit
- R Radio
- R12 Amplifier
- R36 Telephone transceiver
- T12h 12-pin connector
- T16d 16-pin connector
- T26c 26-pin connector
- T38 38-pin connector
- T54a 54-pin connector
- T91 91-pin connector

- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B415 Infotainment CAN Bus high connection 1 (in main wiring harness)
- B421 Infotainment CAN bus low connection 1 (in main wiring harness)

* Refer to applicable engine wiring diagram

- ws = white
- sw = black
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Infotainment CAN Bus high connection 1 (in main wiring harness), Infotainment CAN bus low connection 1 (in main wiring harness)

- G197 Compass magnetic field sensor
- J364 Auxiliary heater control module
- J412 Cell phone operating electronics control module
- T6au 6-pin connector
- T8c 8-pin connector
- T54a 54-pin connector

B415 Infotainment CAN Bus high connection 1 (in main wiring harness)

B421 Infotainment CAN bus low connection 1 (in main wiring harness)

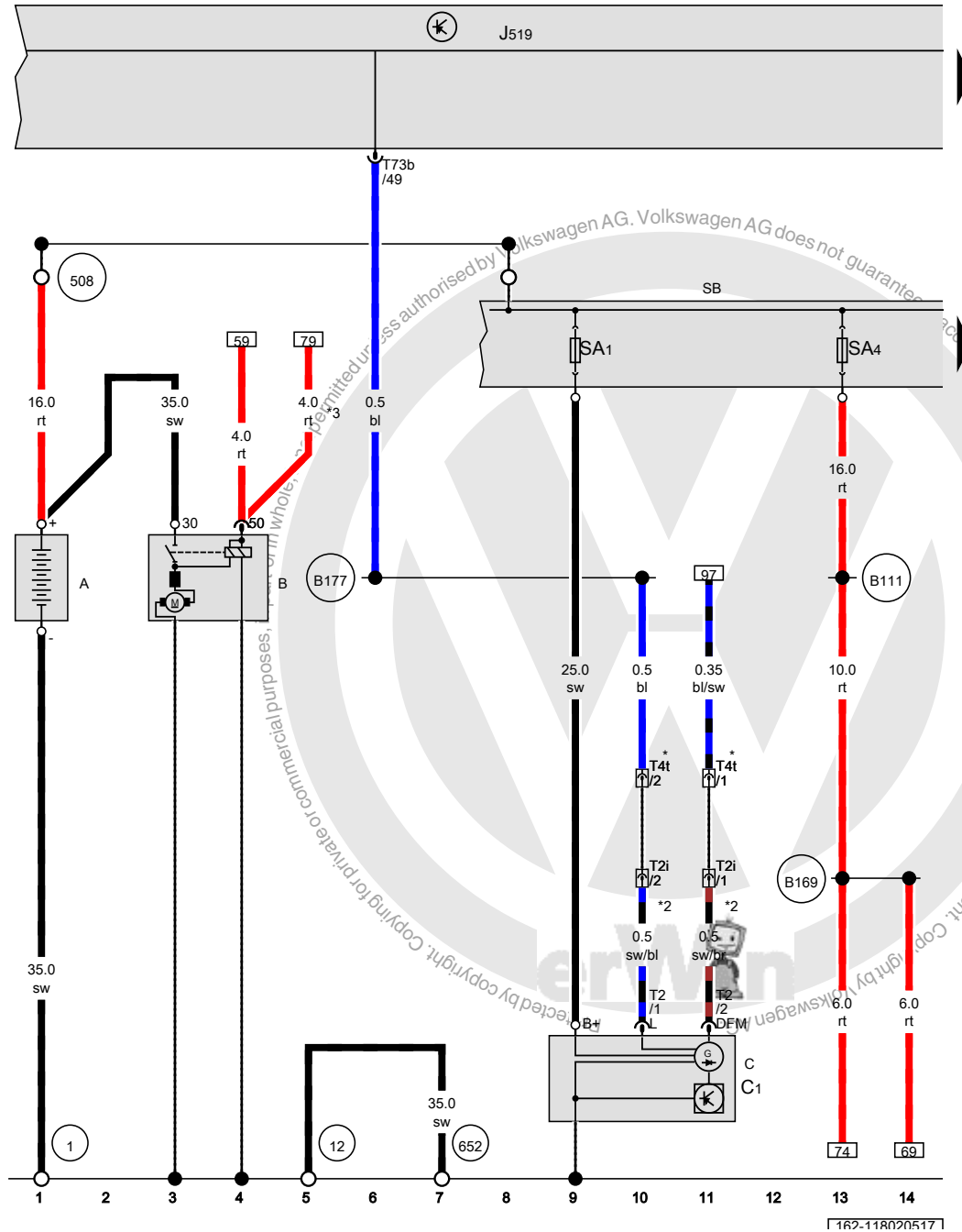
ws = white
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1.8L Gasoline Engine , CPRA,(0GT)

From June 2013



Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse Panel B



- A Battery
- B Starter
- C Generator
- C1 Voltage Regulator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T73b 73-Pin Connector
- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)
- * For Vehicles with A/C System
- *2 For Vehicles Without an A/C System
- *3 Depending on Equipment

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**Motronic Engine Control Module Power Supply Relay,
Vehicle Electrical System Control Module, Fuse Panel B,
Fuse 14 (On Fuse Panel B)**

- J271 Motronic Engine Control Module Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB6 Fuse 6 (On Fuse Panel B)
- SB8 Fuse 8 (On Fuse Panel B)
- SB9 Fuse 9 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)

(B350) Positive Connection 1 (87a) (in Main Wiring Harness)

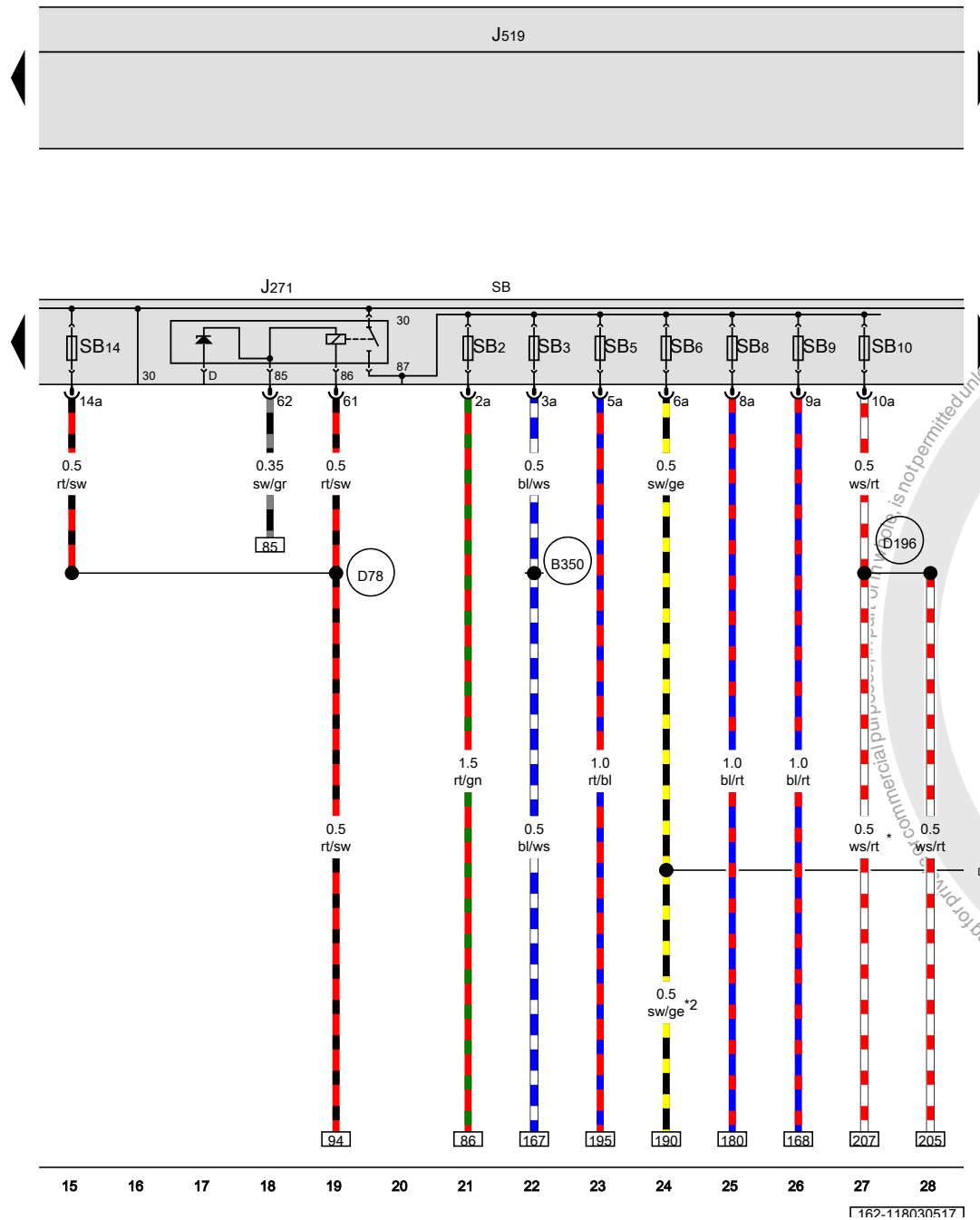
(D78) Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)

(D196) Connection 87A (in Engine Pre-Wiring Harness) 2

(D197) Connection 5 (87A) (in Engine Compartment Wiring Harness)

- * For Vehicles with a Manual Transmission
- *2 Depending on Equipment

ws = white
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or = orange
rs = pink



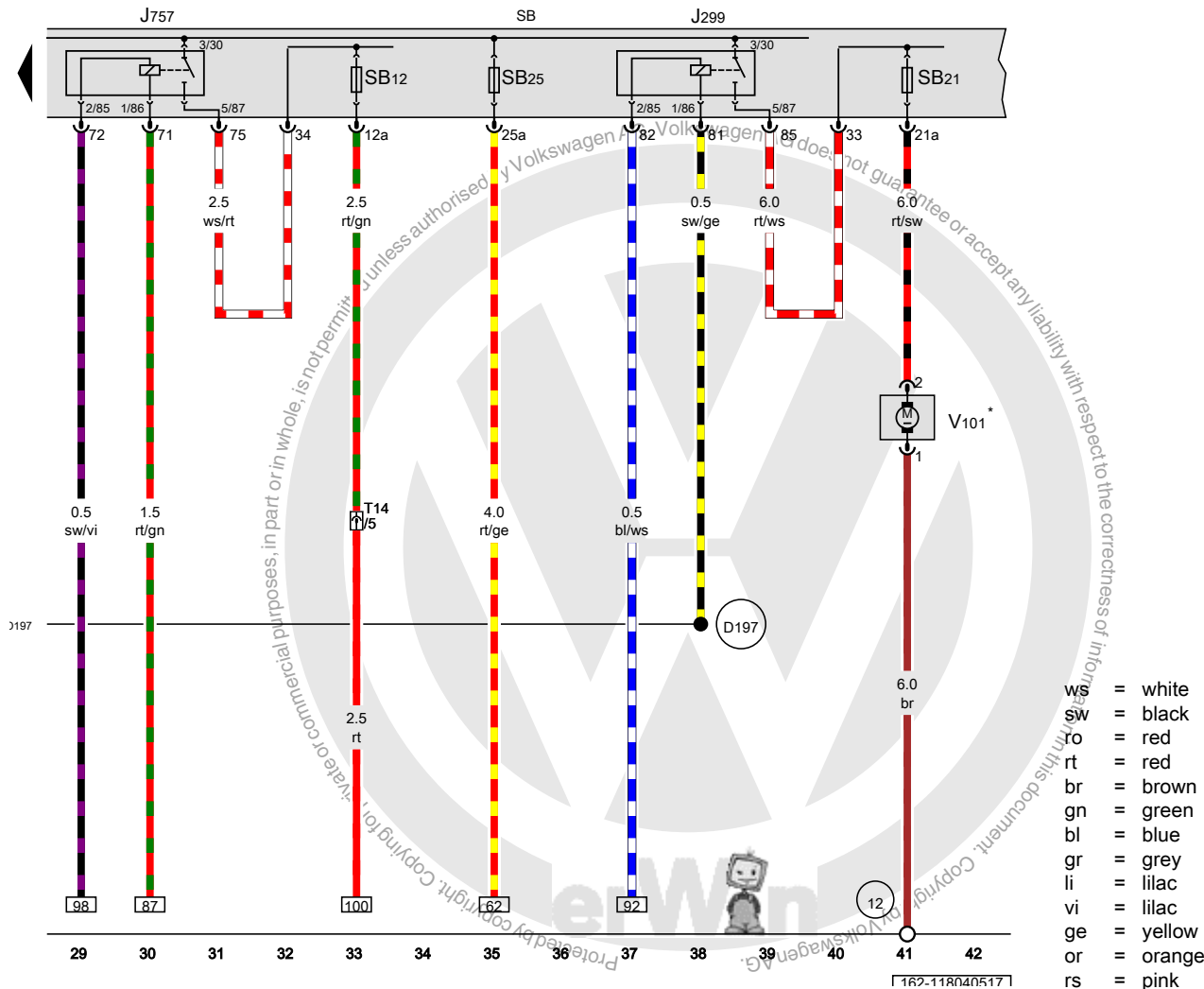
Secondary Air Injection Pump Relay, Vehicle Electrical System Control Module, Engine Component Power Supply Relay, Fuse Panel B, Secondary Air Injection Pump Motor

- J299 Secondary Air Injection Pump Relay
- J519 Vehicle Electrical System Control Module
- J757 Engine Component Power Supply Relay
- SB Fuse Panel B
- SB12 Fuse 12 (On Fuse Panel B)
- SB21 Fuse 21 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T14 14-Pin Connector
- V101 Secondary Air Injection Pump Motor

12 Ground Connection in Engine Compartment, Left

D197 Connection 5 (87A) (in Engine Compartment Wiring Harness)

* For USA Only

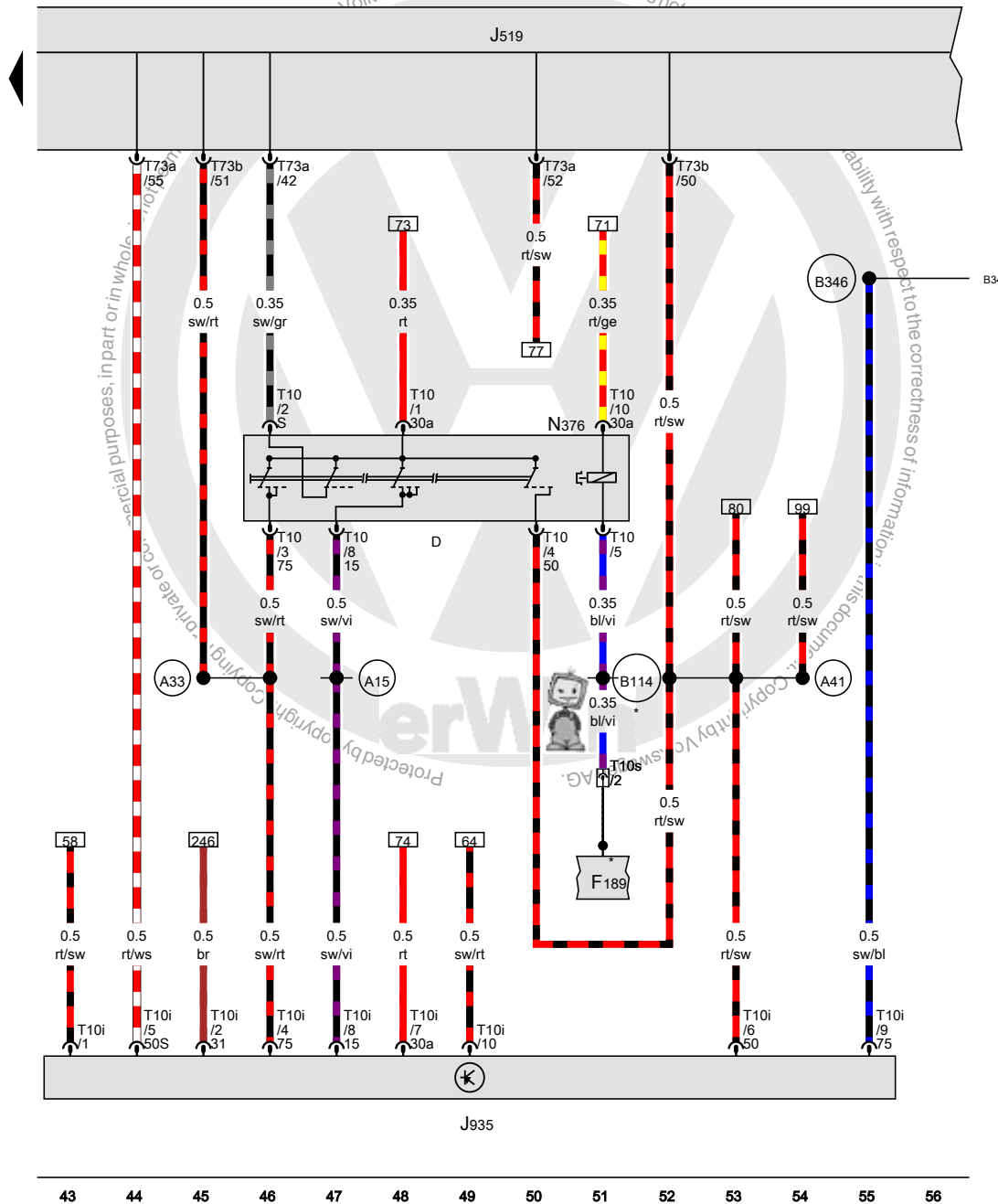


Ignition/Starter Switch, Vehicle Electrical System Control Module, Converter Box

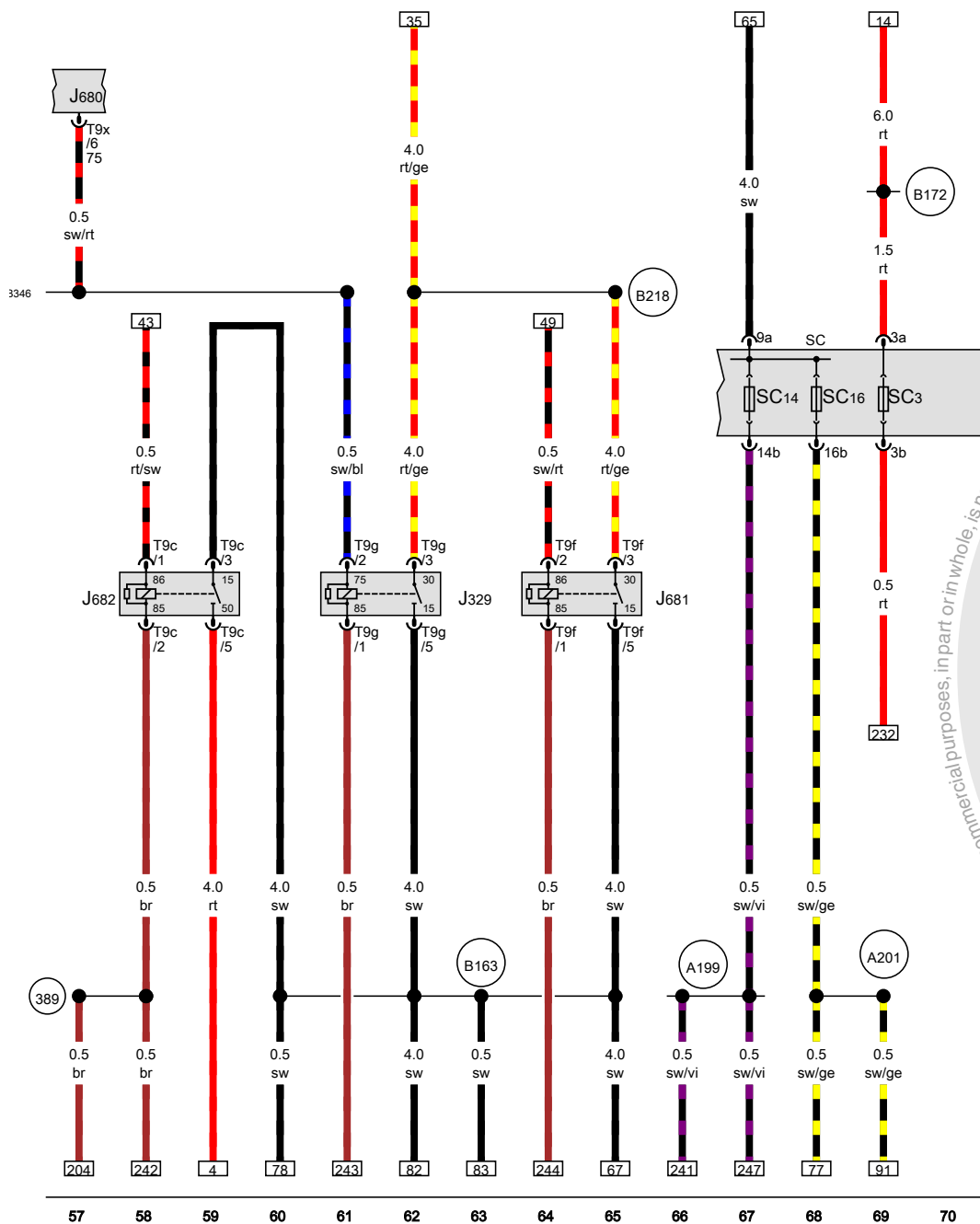
- D Ignition/Starter Switch
- F189 Tiptronic Switch
- J519 Vehicle Electrical System Control Module
- J935 Converter Box
- N376 Ignition Switch Key Lock Solenoid
- T10 10-Pin Connector
- T10i 10-Pin Connector
- T10s 10-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- (A15) Plus Connection (15) (in Instrument Cluster Wiring Harness)
- (A33) Connection 75 (in Instrument Panel Wiring Harness)
- (A41) Positive Connection (50) (in Instrument Panel Wiring Harness)
- (B114) Lock Switch Connection (in Interior Wiring Harness)
- (B346) Connection 75 (in Main Wiring Harness) 1
- * For Vehicles with Automatic Transmission

- ws = white
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- gn = green
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- li = lilac
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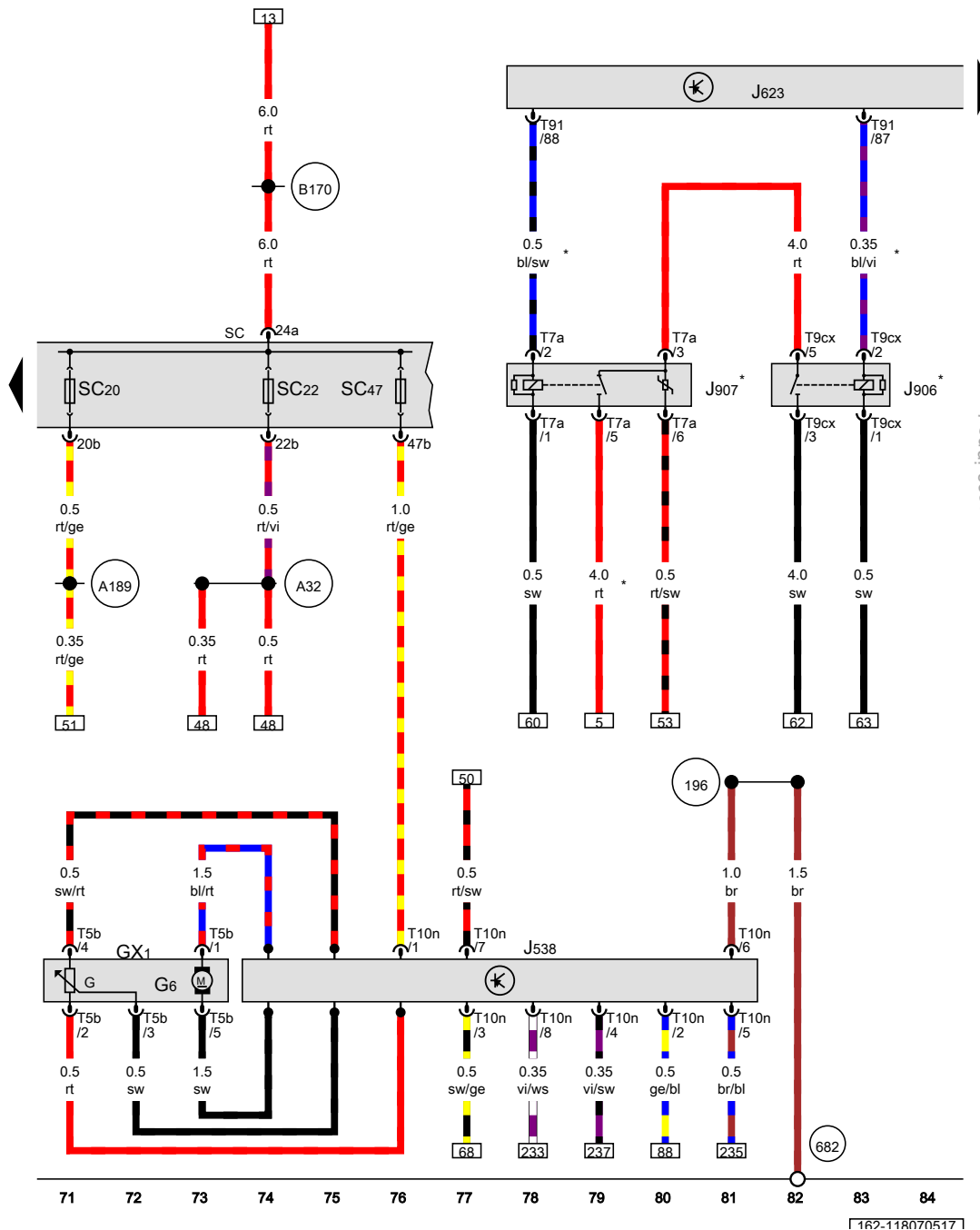
Terminal 15 Power Supply Relay, Terminal 15 Power Supply Relay 2, Terminal 50 Power Supply Relay, Fuse Panel C

- J329 Terminal 15 Power Supply Relay
- J680 Terminal 75 Power Supply Relay 1
- J681 Terminal 15 Power Supply Relay 2
- J682 Terminal 50 Power Supply Relay
- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- T9c 9-Pin Connector
- T9f 9-Pin Connector
- T9g 9-Pin Connector
- T9x 9-Pin Connector

- (389) Ground Connection 24 (in Main Wiring Harness)
- (A199) Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- (A201) Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- (B163) Positive Connection 1 (15) (in Interior Wiring Harness)
- (B172) Positive Connection 4 (30) (in Interior Wiring Harness)
- (B218) Positive Connection 6 (30) (in Interior Wiring Harness)
- (B346) Connection 75 (in Main Wiring Harness) 1

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Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Engine Control Module, Fuse Panel C



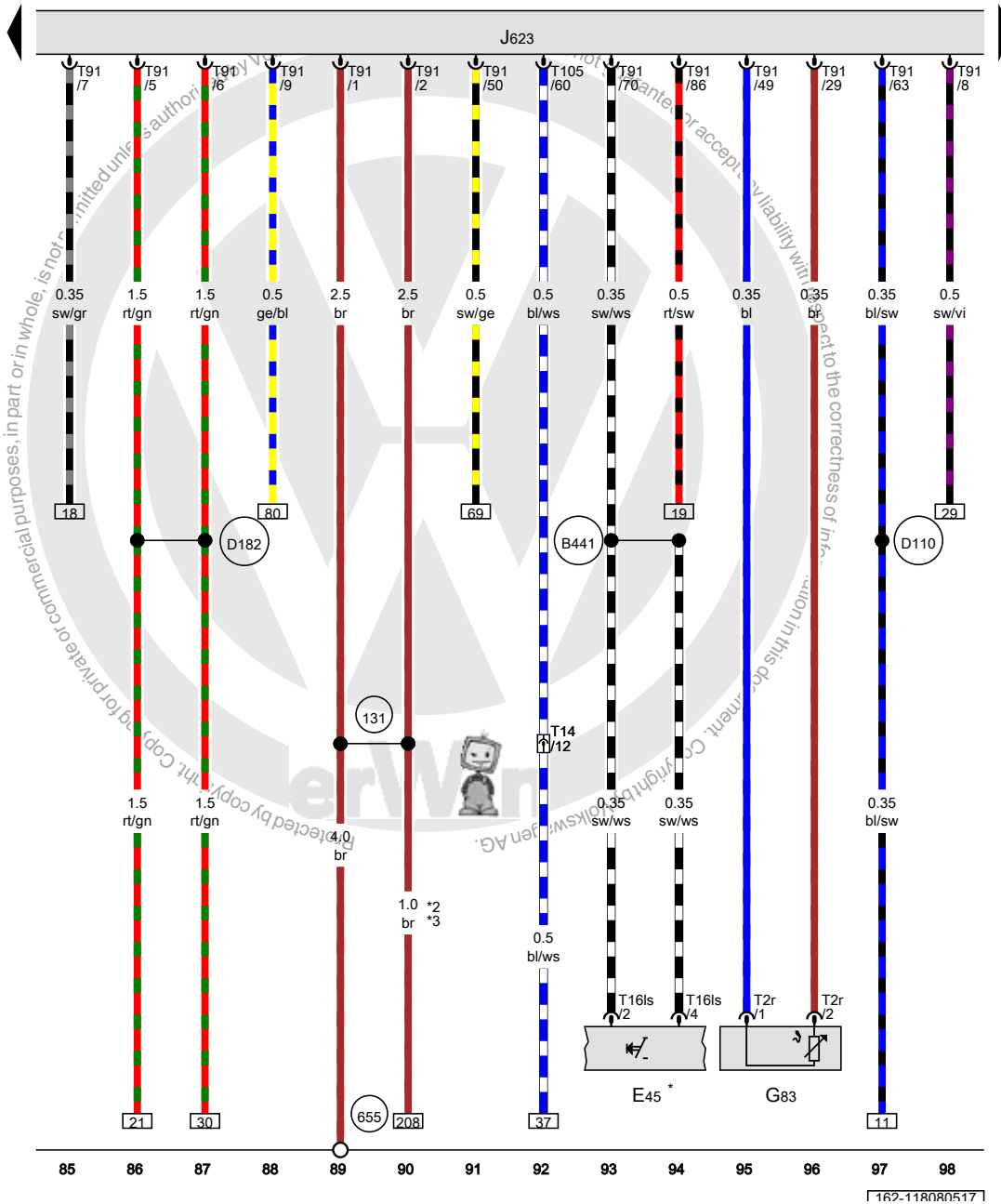
- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J538 Fuel Pump Control Module
- J623 Engine Control Module
- J906 Starter Relay 1
- J907 Starter Relay 2
- SC Fuse Panel C
- SC20 Fuse 20 (On Fuse Panel C)
- SC22 Fuse 22 (On Fuse Panel C)
- SC47 Fuse 47 (On Fuse Panel C)
- T5b 5-Pin Connector
- T7a 7-Pin Connector
- T9cx 9-Pin Connector
- T10n 10-Pin Connector
- T91 91-Pin Connector

- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- A32 Positive Connection (30) (in Instrument Panel Wiring Harness)
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)
- * Depending on Equipment

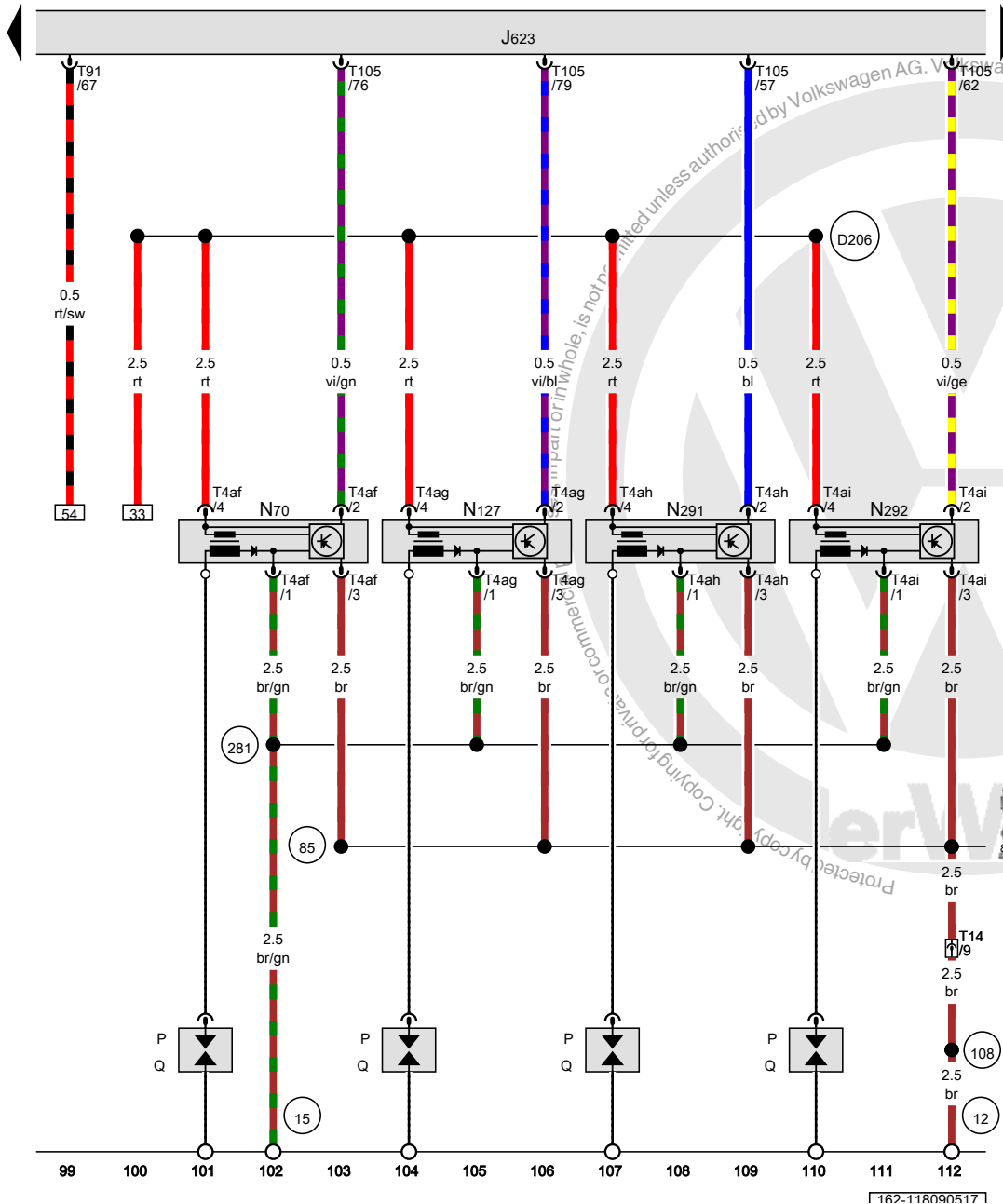
**Engine Coolant Temperature Sensor on Radiator Outlet,
Engine Control Module**

- E45 Cruise Control Switch
- G83 Engine Coolant Temperature Sensor on Radiator Outlet
- J623 Engine Control Module
- T2r 2-Pin Connector
- T14 14-Pin Connector
- T16ls 16-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector
- 131 Ground Connection 2 (in Engine Compartment Wiring Harness)
- 655 Ground Connection on Left Headlamp
- B441 Cruise Control Connection (in Main Wiring Harness)
- D110 Connection 8 (in Engine Compartment Wiring Harness)
- D182 Connection 3 (87A) (in Engine Compartment Wiring Harness)
- * For Vehicles with Cruise Control System
- *2 For Vehicles with a Manual Transmission
- *3 For USA Only

ws = white
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 ro = red
 rt = red
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 gn = green
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Engine Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors, Spark Plugs



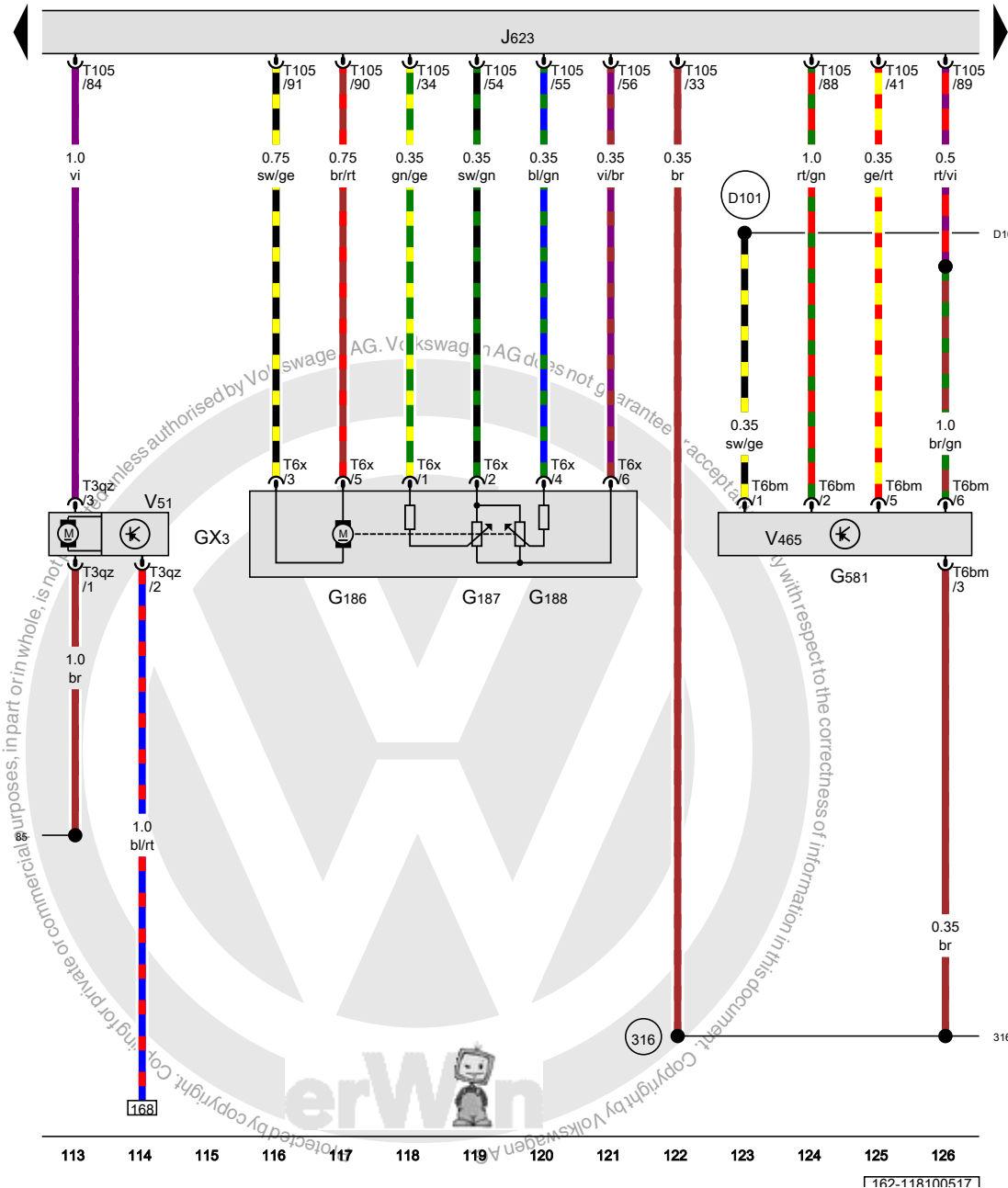
- J623 Engine Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

- 12 Ground Connection in Engine Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

- ws = white
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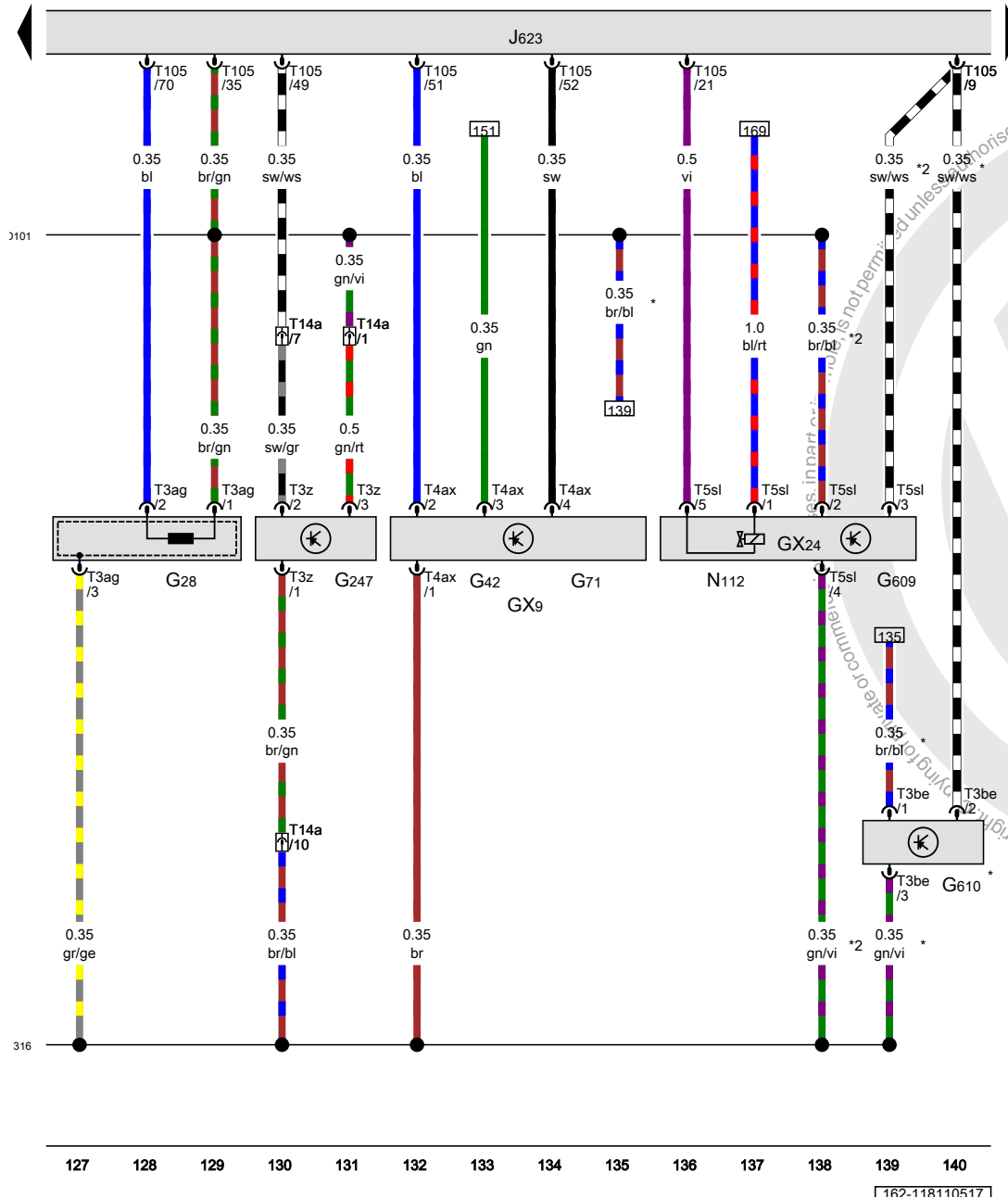
Throttle Valve Control Module, EPC Throttle Drive, Charge Air Pressure Actuator Position Sensor, Engine Control Module, After-Run Coolant Pump



- GX3 Throttle Valve Control Module
- G186 EPC Throttle Drive
- G187 EPC Throttle Drive Angle Sensor 1
- G188 EPC Throttle Drive Angle Sensor 2
- G581 Charge Air Pressure Actuator Position Sensor
- J623 Engine Control Module
- T3qz 3-Pin Connector
- T6bm 6-Pin Connector
- T6x 6-Pin Connector
- T105 105-Pin Connector
- V51 After-Run Coolant Pump
- V465 Charge Air Pressure Actuator

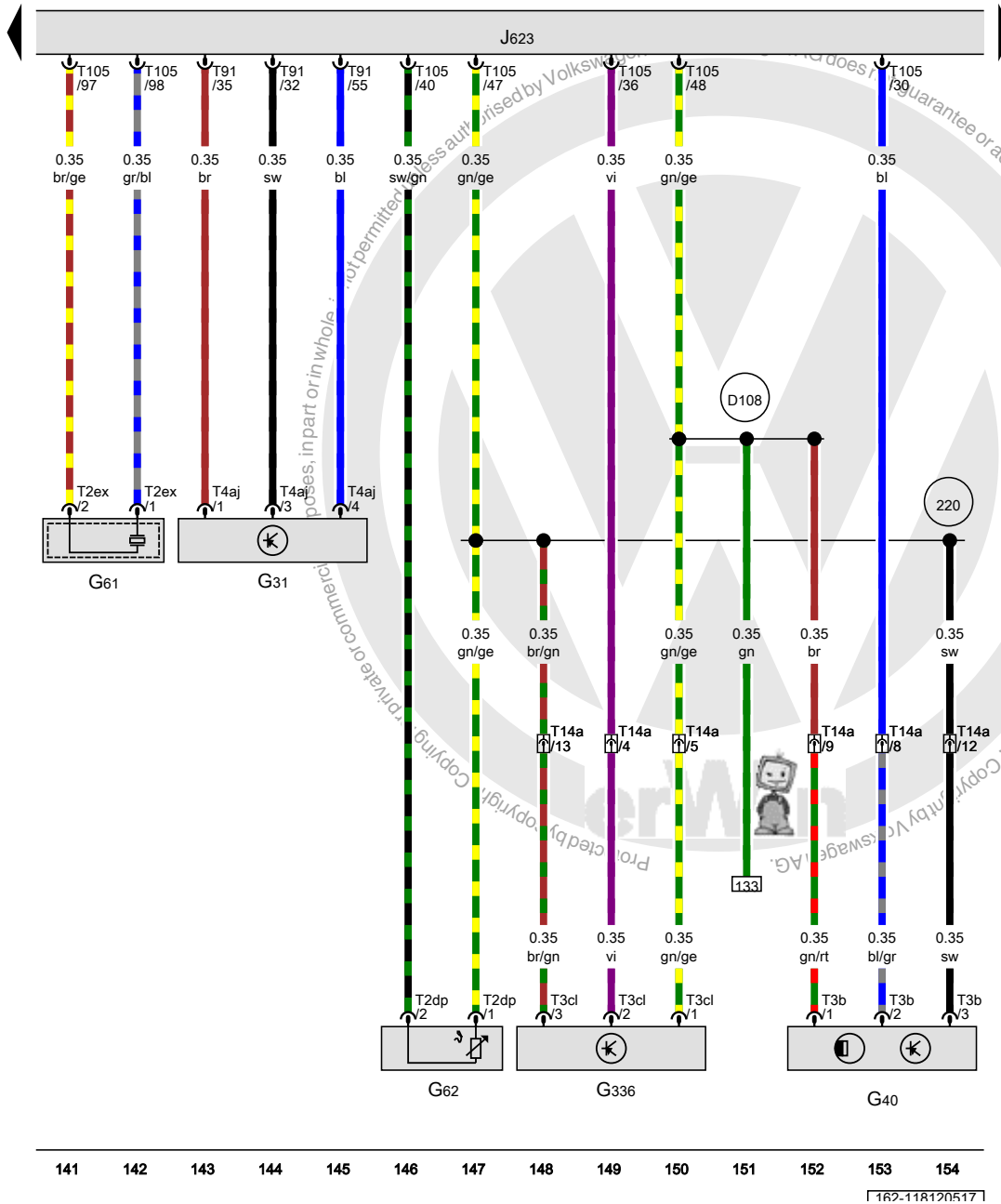
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D101 Connection 1 (in Engine Compartment Wiring Harness)

Intake Manifold Sensor, Secondary Air System, Engine Speed Sensor, Fuel Pressure Sensor, Engine Control Module, Secondary Air Injection Solenoid Valve



- GX9 Intake Manifold Sensor
- GX24 Secondary Air System
- G28 Engine Speed Sensor
- G42 Intake Air Temperature Sensor
- G71 Manifold Absolute Pressure Sensor
- G247 Fuel Pressure Sensor
- G609 Secondary Air Injection Sensor 1
- G610 Secondary Air Injection Sensor 2
- J623 Engine Control Module
- N112 Secondary Air Injection Solenoid Valve
- T3ag 3-Pin Connector
- T3be 3-Pin Connector
- T3z 3-Pin Connector
- T4ax 4-Pin Connector
- T5sl 5-Pin Connector
- T14a 14-Pin Connector
- T105 105-Pin Connector
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D101 Connection 1 (in Engine Compartment Wiring Harness)
- * From September 2013
- *2 Through September 2013

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Charge Air Pressure Sensor, Camshaft Position Sensor, Knock Sensor 1, Engine Coolant Temperature Sensor, Engine Control Module

- G31 Charge Air Pressure Sensor
- G40 Camshaft Position Sensor
- G61 Knock Sensor 1
- G62 Engine Coolant Temperature Sensor
- G336 Intake Manifold Runner Position Sensor
- J623 Engine Control Module
- T2dp 2-Pin Connector
- T2ex 2-Pin Connector
- T3b 3-Pin Connector
- T3cl 3-Pin Connector
- T4aj 4-Pin Connector
- T14a 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

220 Sensor Ground Connection (in Engine Wiring Harness)

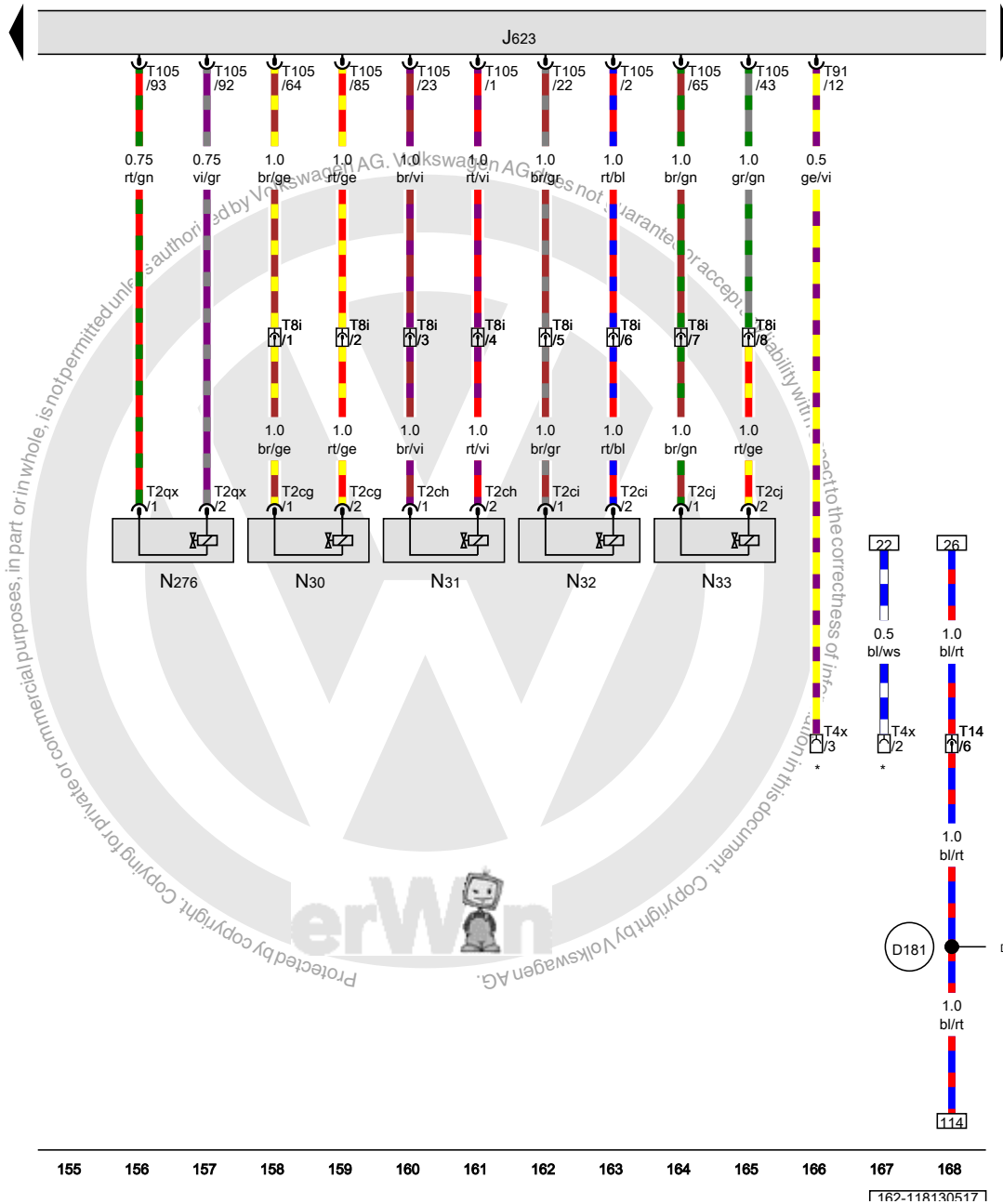
D108 Connection 6 (in Engine Compartment Wiring Harness)

Engine Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, Fuel Pressure Regulator Valve

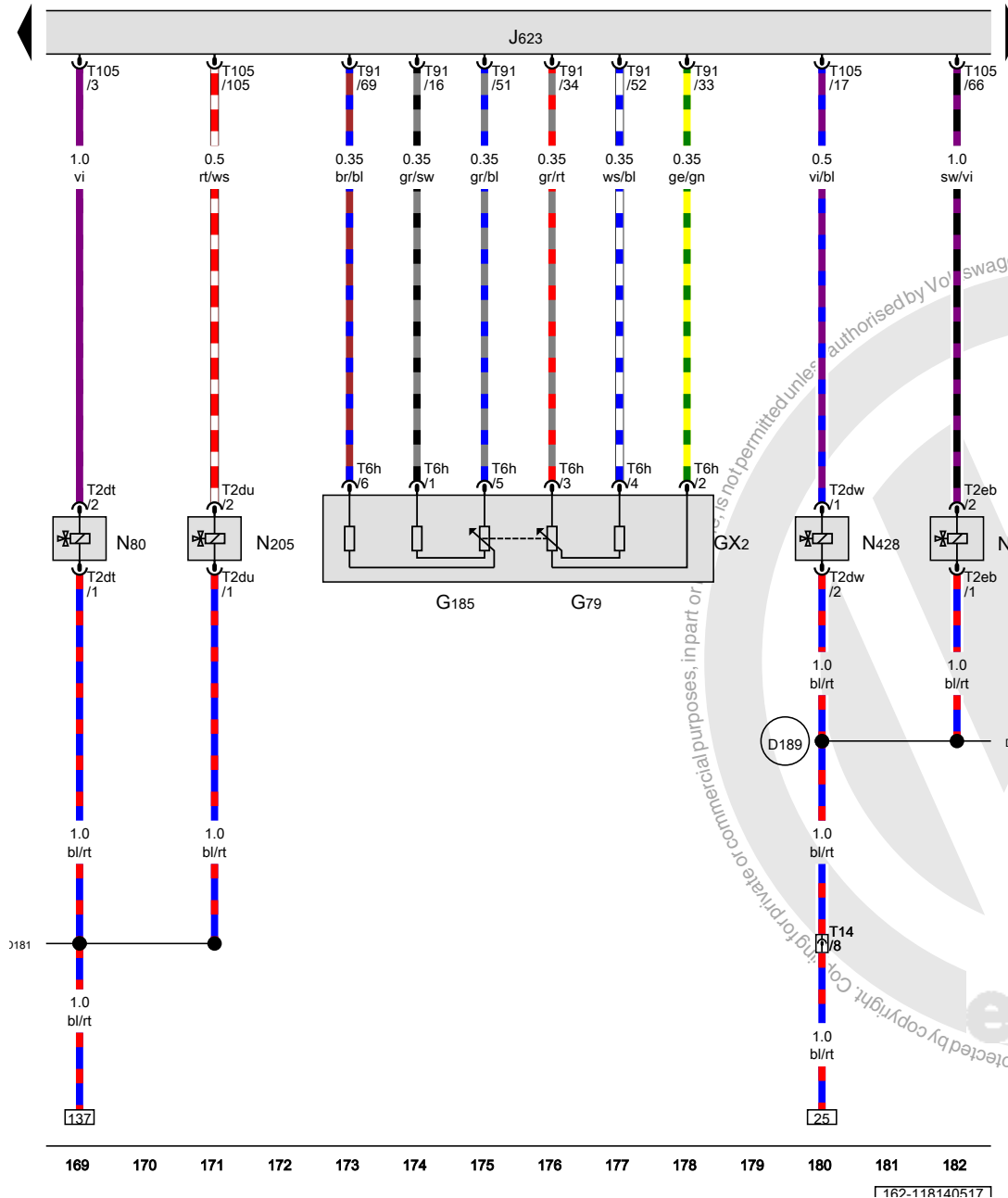
- J623 Engine Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N276 Fuel Pressure Regulator Valve
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2qx 2-Pin Connector
- T4x 4-Pin Connector
- T8i 8-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)

* Radiator Fan Connection



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- or = orange
- rs = pink

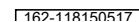


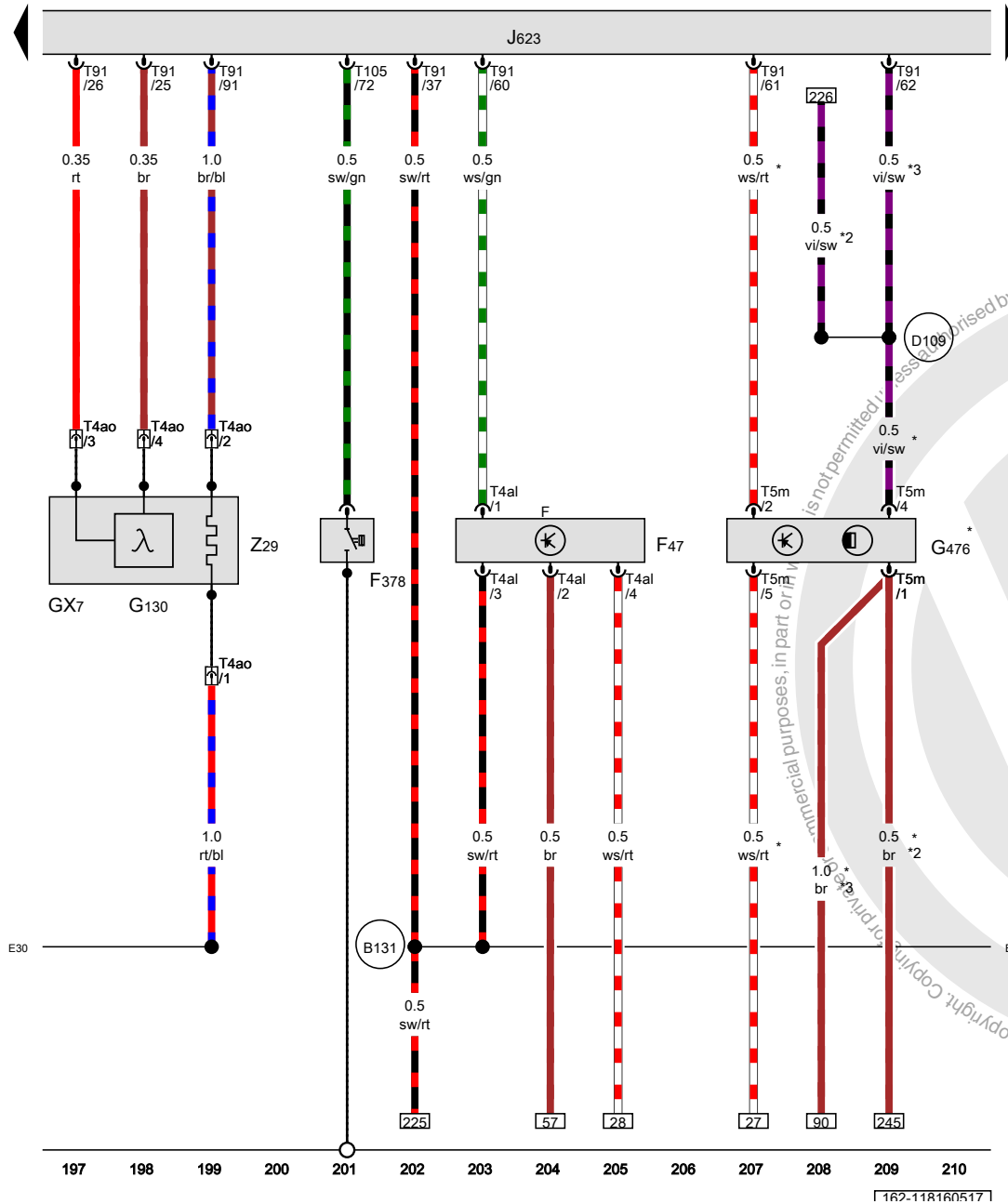
Accelerator Pedal Module, Accelerator Pedal Position Sensor 2, Engine Control Module, EVAP Canister Purge Regulator Valve 1, Camshaft Adjustment Valve 1, Turbocharger Recirculation Valve, Oil Pressure Regulation Valve

- GX2 Accelerator Pedal Module
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine Control Module
- N80 EVAP Canister Purge Regulator Valve 1
- N205 Camshaft Adjustment Valve 1
- N249 Turbocharger Recirculation Valve
- N428 Oil Pressure Regulation Valve
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dw 2-Pin Connector
- T2eb 2-Pin Connector
- T6h 6-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)

D189 Connection 87A (in Engine Pre-Wiring Harness)

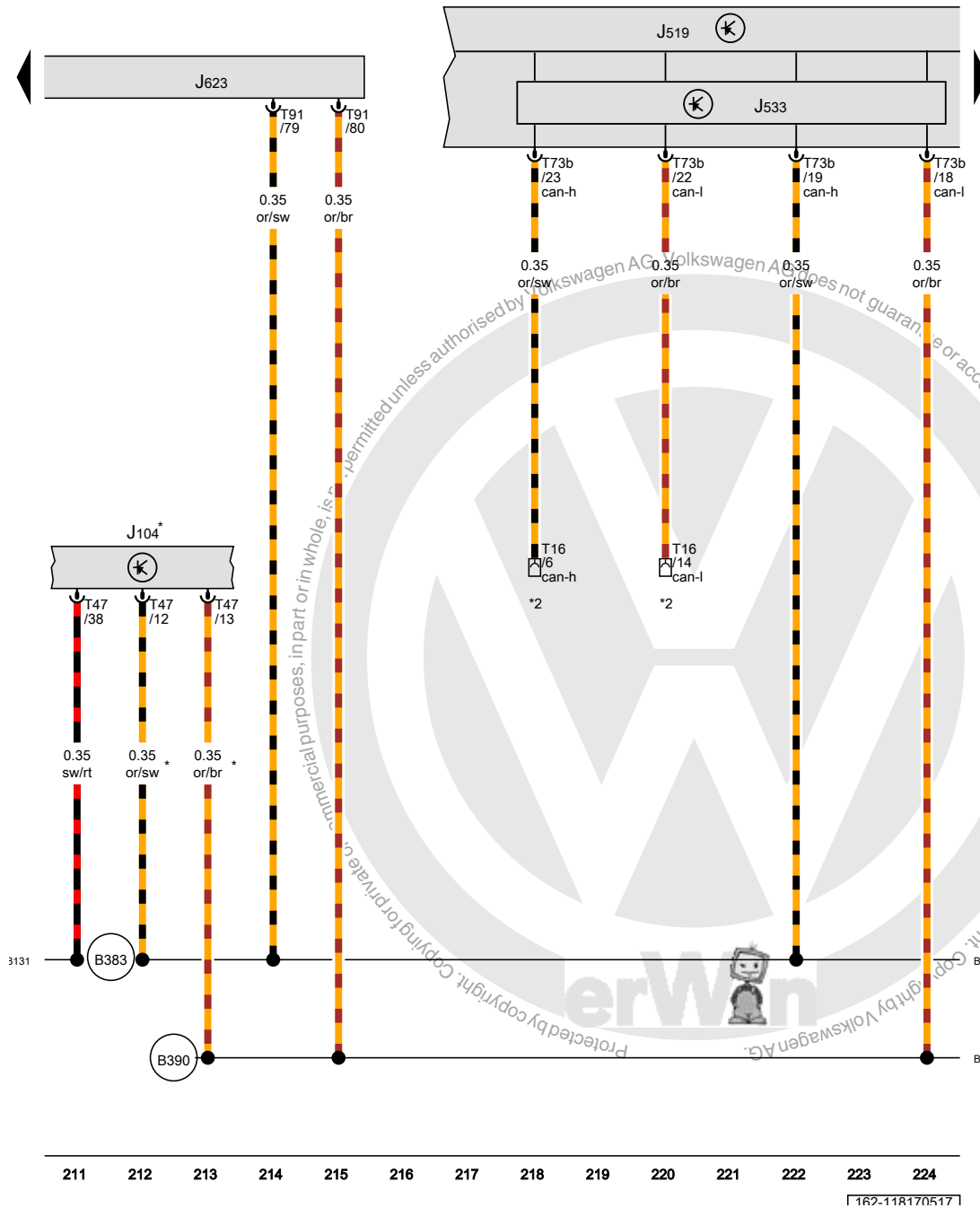




Brake Lamp Switch, Brake Pedal Switch, Reduced Oil Pressure Switch, Oxygen Sensor 1 After Catalytic Converter, Clutch Position Sensor, Engine Control Module, Heater for Oxygen Sensor 1 After Catalytic Converter

- F Brake Lamp Switch
- F47 Brake Pedal Switch
- F378 Reduced Oil Pressure Switch
- GX7 Oxygen Sensor 1 After Catalytic Converter
- G130 Oxygen Sensor After Catalytic Converter
- G476 Clutch Position Sensor
- J623 Engine Control Module
- T4al 4-Pin Connector
- T4ao 4-Pin Connector
- T5m 5-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- B131 Connection 54 (in Interior Wiring Harness)
- D109 Connection 7 (in Engine Compartment Wiring Harness)
- E30 Connection 87A (in Engine Wiring Harness)
- * For Vehicles with a Manual Transmission
- *2 Not for USA
- *3 For USA Only

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Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Engine Control Module

- J104 ABS Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- J623 Engine Control Module
- T16 16-Pin Connector
- T47 47-Pin Connector
- T73b 73-Pin Connector
- T91 91-Pin Connector

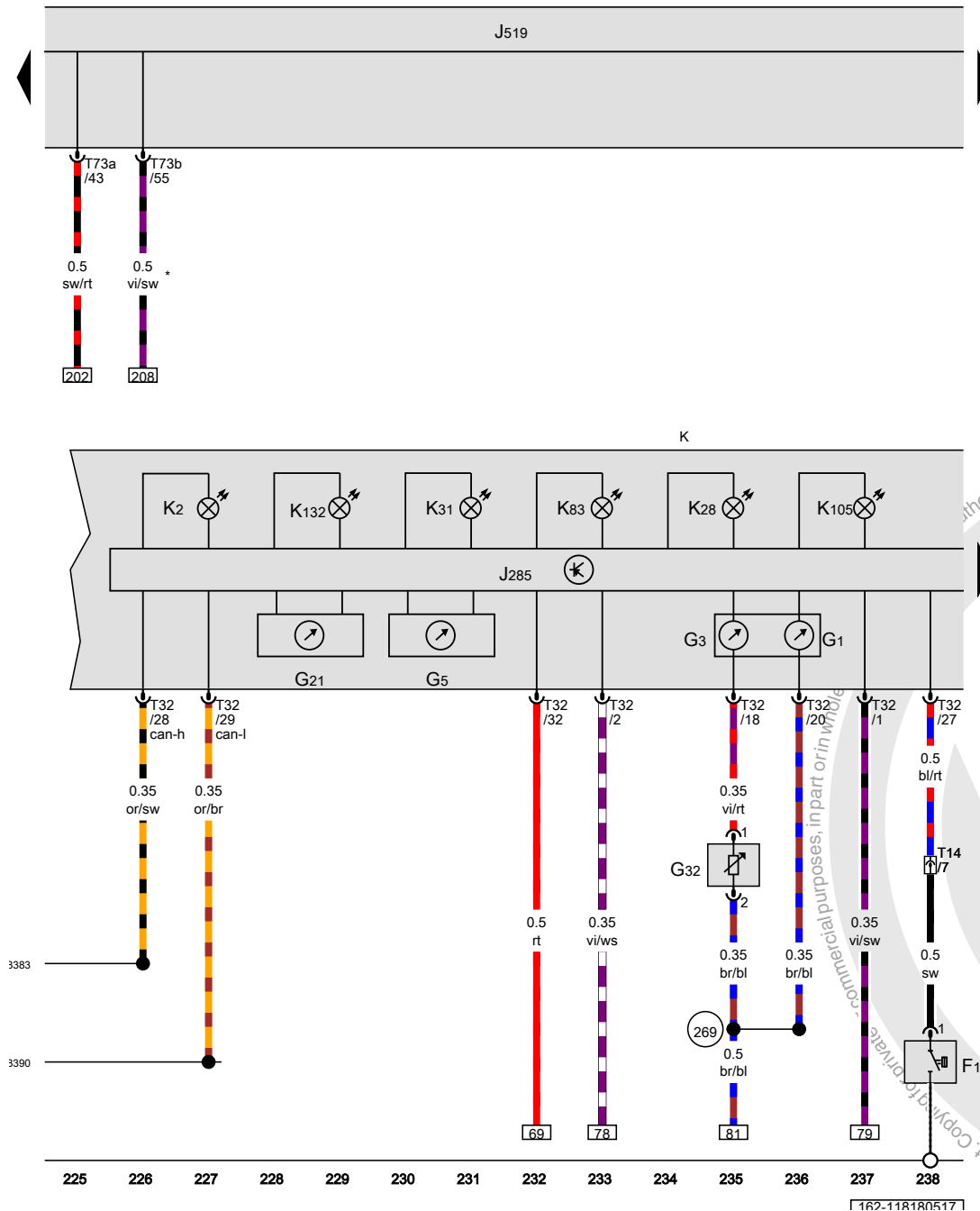
B131 Connection 54 (in Interior Wiring Harness)

B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)

B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)

* For Vehicles with Anti-Lock Braking System (ABS) and Electronic Stabilization Program (ESP)

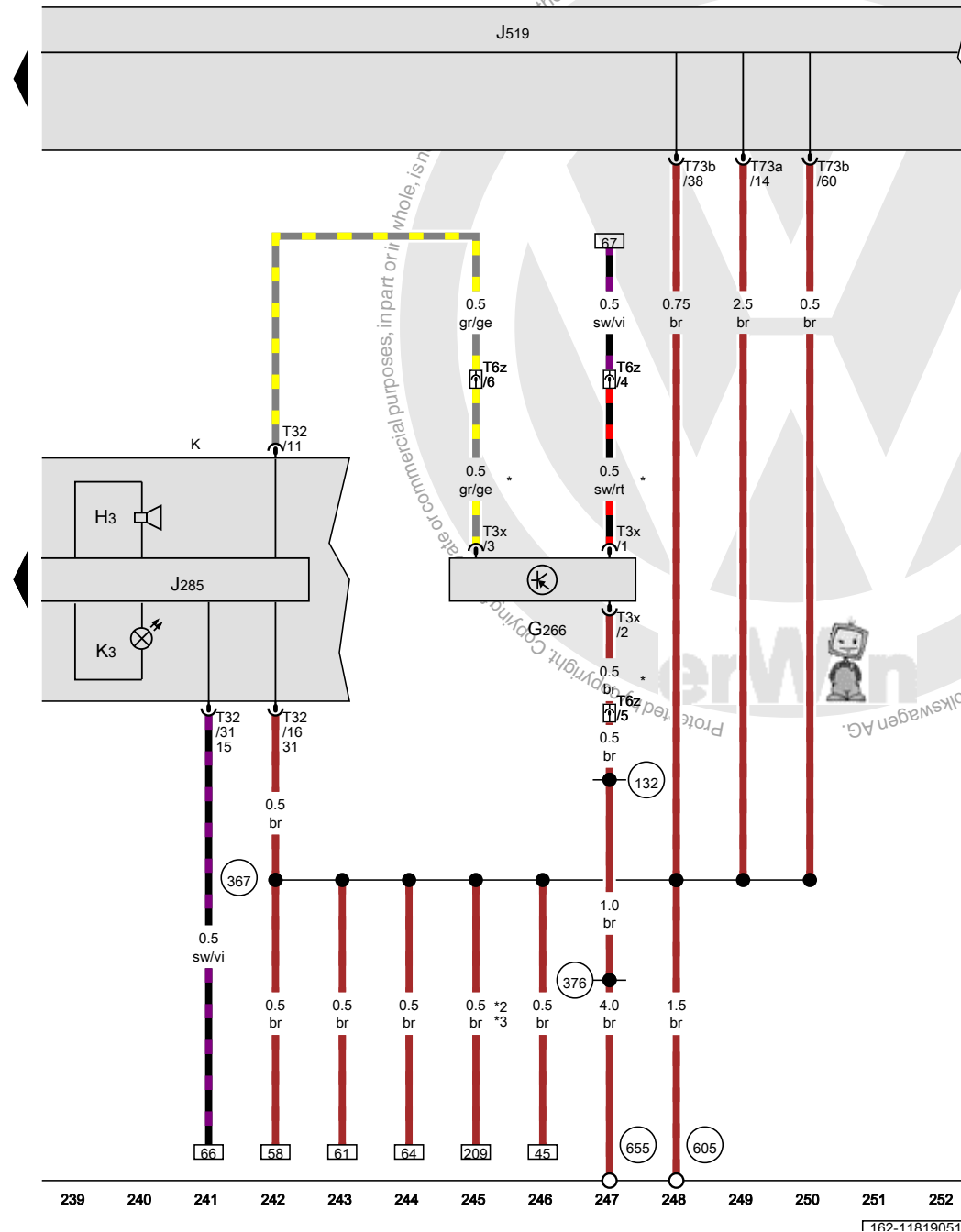
*2 Diagnostic Connector



Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Generator Indicator Lamp, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp, Electronic Power Control Malfunction Indicator Lamp

- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K2 Generator Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Not for USA

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Oil Level Thermal Sensor, Instrument Cluster Control Module, Vehicle Electrical System Control Module

- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K Instrument Cluster
- K3 Oil Pressure Indicator Lamp
- T3x 3-Pin Connector
- T6z 6-Pin Connector, Near the Left Headlamp
- T32 32-Pin Connector
- T73a 73-Pin Connector
- T73b 73-Pin Connector

- 132 Ground Connection 3 (in Engine Compartment Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- 655 Ground Connection on Left Headlamp

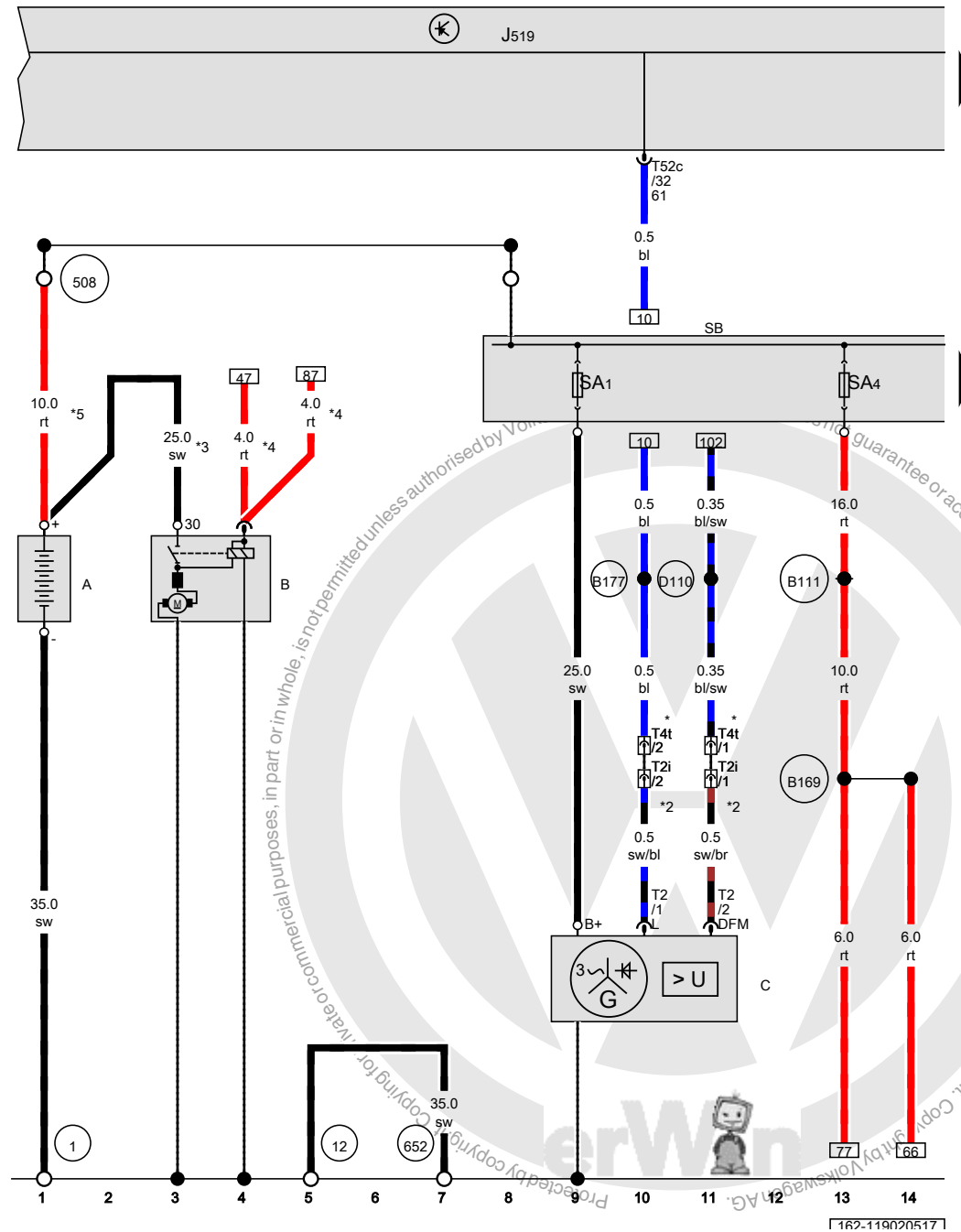
- * For Vehicles with Flexible Service Interval Display
- *2 For Vehicles with a Manual Transmission
- *3 Not for USA

- ws = white
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- rs = pink

2.0L Gasoline Engine , CPPA,(0GT)

From December 2012





Battery, Starter, Generator, Vehicle Electrical System Control Module, Fuse Panel B

- A Battery
- B Starter
- C Generator
- J519 Vehicle Electrical System Control Module
- SA1 Fuse 1 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SB Fuse Panel B
- T2 2-Pin Connector
- T2i 2-Pin Connector, Near the Starter
- T4t 4-Pin Connector, Near the Starter
- T52c 52-Pin Connector

- 1 Ground Strap, Battery to Body
- 12 Ground Connection in Engine Compartment, Left
- 508 Terminal 30 Threaded Connection (On E-Box)
- 652 Transmission/Engine Ground Connection
- B111 Positive Connection 1 (30a) (in Interior Wiring Harness)
- B169 Positive Connection 1 (30) (in Interior Wiring Harness)
- B177 Connection 61 (in Interior Wiring Harness)
- D110 Connection 8 (in Engine Compartment Wiring Harness)

- * For Vehicles with A/C System
- *2 For Vehicles Without an A/C System
- *3 35.0 Diameter Possible
- *4 Depending on Equipment
- *5 16.0 Diameter Possible

ws white
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**Motronic Engine Control Module Power Supply Relay,
Vehicle Electrical System Control Module, Fuse Panel B,
Fuse 14 (On Fuse Panel B)**

- J271 Motronic Engine Control Module Power Supply Relay
- J519 Vehicle Electrical System Control Module
- SB Fuse Panel B
- SB2 Fuse 2 (On Fuse Panel B)
- SB3 Fuse 3 (On Fuse Panel B)
- SB5 Fuse 5 (On Fuse Panel B)
- SB6 Fuse 6 (On Fuse Panel B)
- SB9 Fuse 9 (On Fuse Panel B)
- SB10 Fuse 10 (On Fuse Panel B)
- SB14 Fuse 14 (On Fuse Panel B)
- SB25 Fuse 25 (On Fuse Panel B)
- T4x 4-Pin Connector

(B350) Positive Connection 1 (87a) (in Main Wiring Harness)

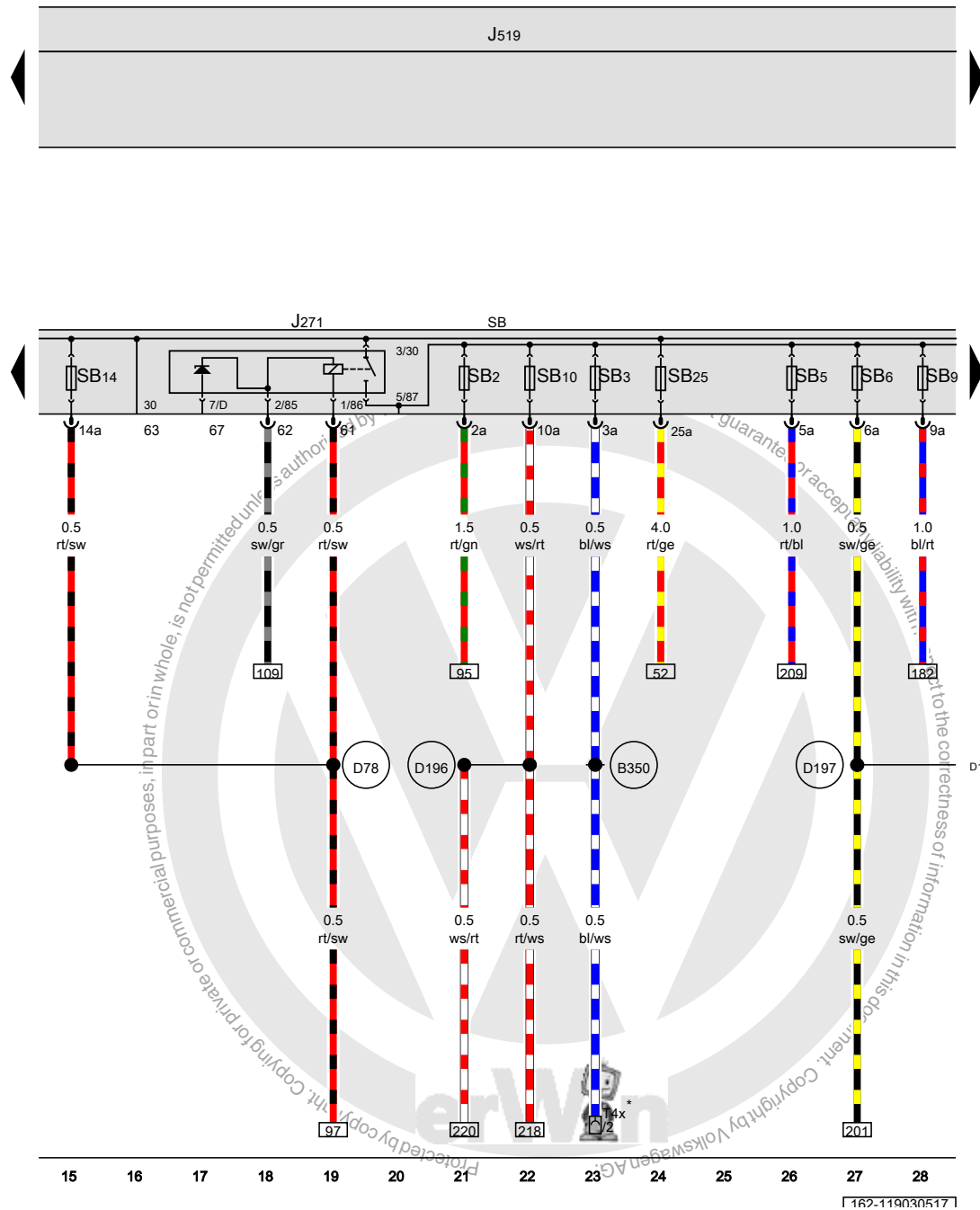
(D78) Positive Connection 1 (30a) (in Engine Compartment Wiring Harness)

(D196) Connection 87A (in Engine Pre-Wiring Harness) 2

(D197) Connection 5 (87A) (in Engine Compartment Wiring Harness)

* Radiator Fan Connection

ws = white
sw = black
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gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
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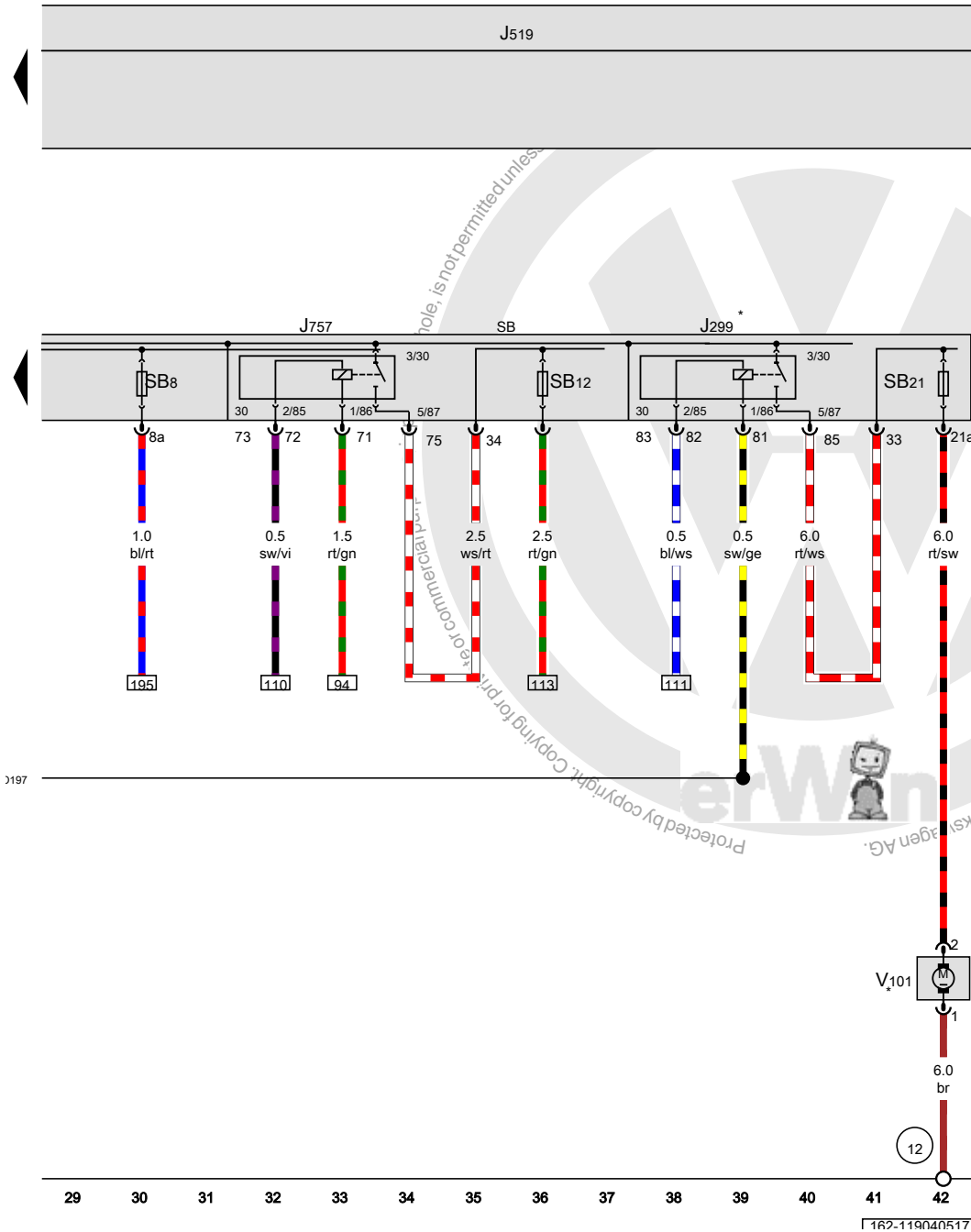
Secondary Air Injection Pump Relay, Vehicle Electrical System Control Module, Engine Component Power Supply Relay, Fuse Panel B, Secondary Air Injection Pump Motor

- J299 Secondary Air Injection Pump Relay
- J519 Vehicle Electrical System Control Module
- J757 Engine Component Power Supply Relay
- SB Fuse Panel B
- SB8 Fuse 8 (On Fuse Panel B)
- SB12 Fuse 12 (On Fuse Panel B)
- SB21 Fuse 21 (On Fuse Panel B)
- V101 Secondary Air Injection Pump Motor

12 Ground Connection in Engine Compartment, Left

D197 Connection 5 (87A) (in Engine Compartment Wiring Harness)

* For USA Only

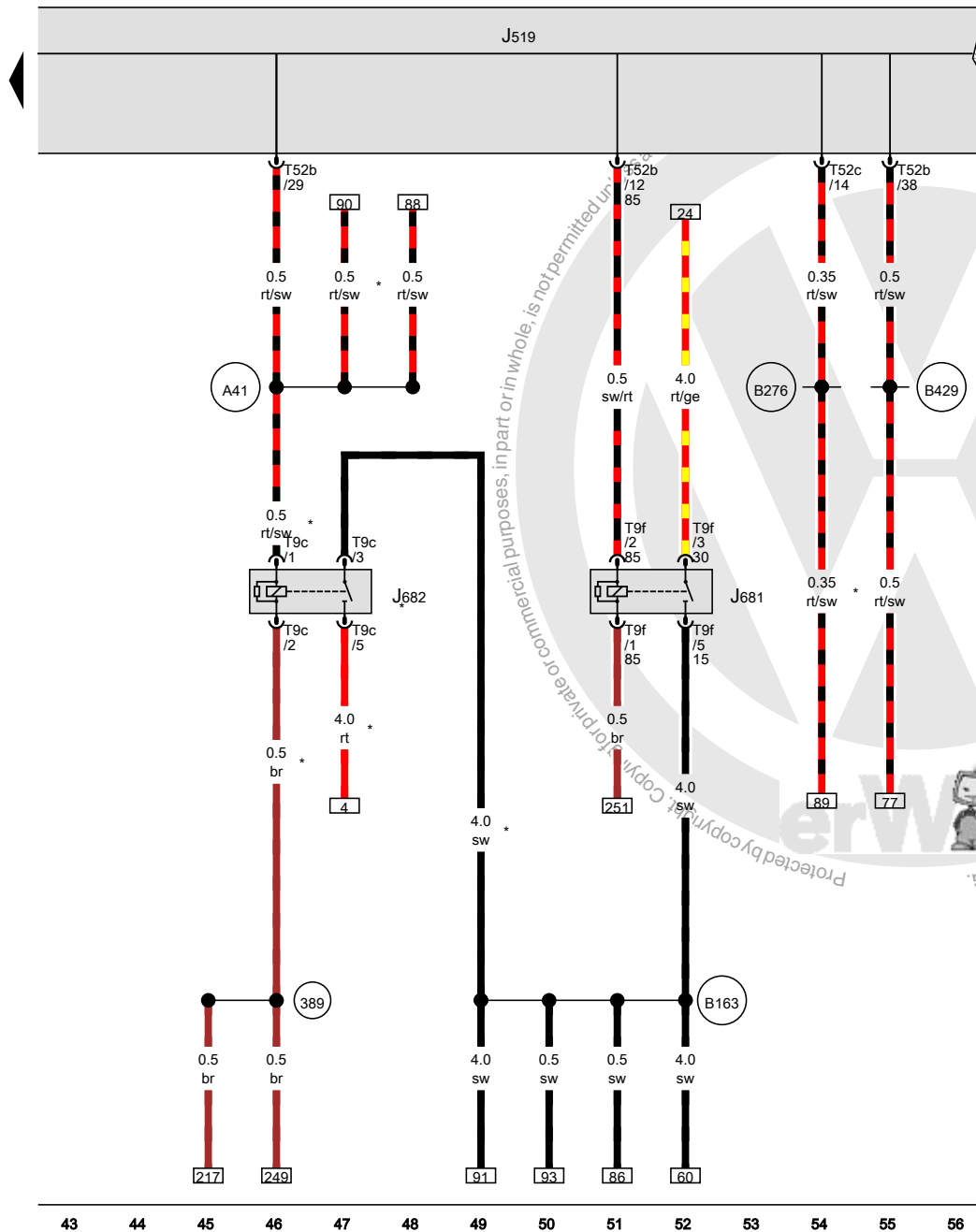


**Vehicle Electrical System Control Module, Terminal 15
Power Supply Relay 2, Terminal 50 Power Supply Relay**

J519 Vehicle Electrical System Control Module
J681 Terminal 15 Power Supply Relay 2
J682 Terminal 50 Power Supply Relay
T9c 9-Pin Connector
T9f 9-Pin Connector
T52b 52-Pin Connector
T52c 52-Pin Connector

389 Ground Connection 24 (in Main Wiring Harness)
A41 Positive Connection (50) (in Instrument Panel Wiring Harness)
B163 Positive Connection 1 (15) (in Interior Wiring Harness)
B276 Positive Connection (50) (in Main Wiring Harness)
B429 Fuel Pump Relay Connection (in Main Wiring Harness)
* Depending on Equipment

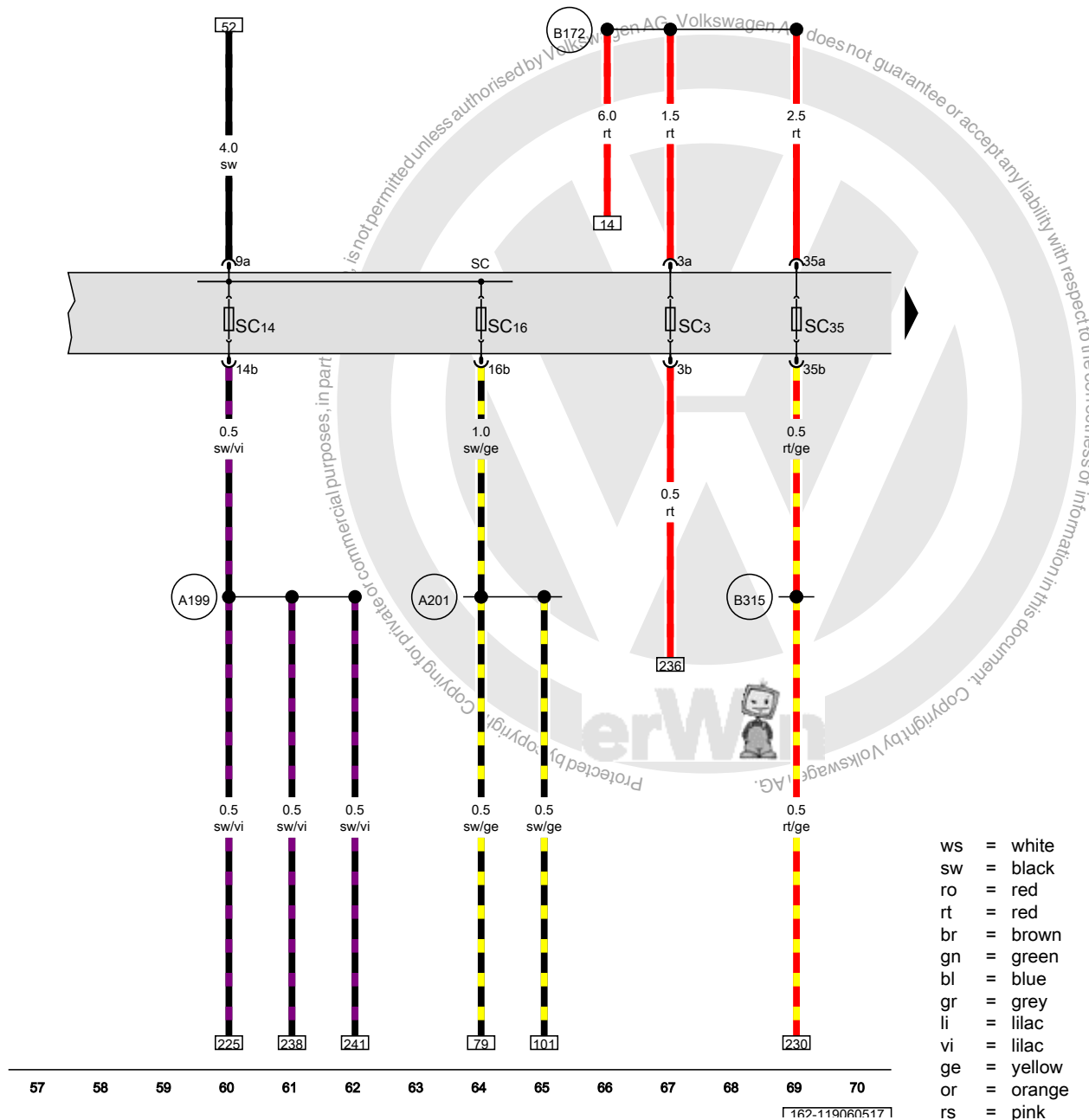
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or = orange
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162-119050517

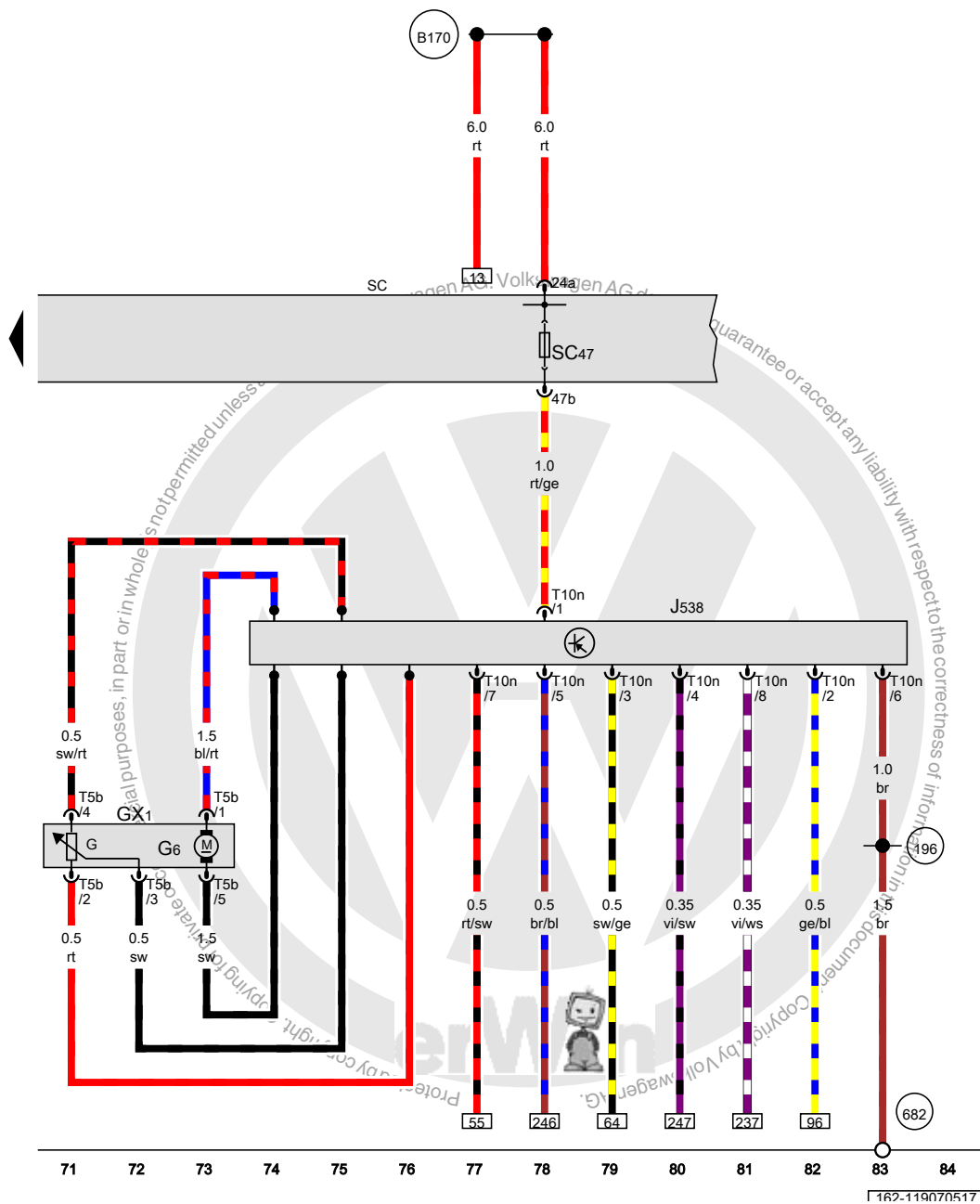
Fuse Panel C

- SC Fuse Panel C
- SC3 Fuse 3 (On Fuse Panel C)
- SC14 Fuse 14 (On Fuse Panel C)
- SC16 Fuse 16 (On Fuse Panel C)
- SC35 Fuse 35 (On Fuse Panel C)
- A199 Positive Connection 4 (15a) (in Instrument Panel Wiring Harness)
- A201 Positive Connection 6 (15a) (in Instrument Panel Wiring Harness)
- B172 Positive Connection 4 (30) (in Interior Wiring Harness)
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)



Fuel Level Sensor, Fuel Delivery Unit, Transfer Fuel Pump, Fuel Pump Control Module, Fuse Panel C

- G Fuel Level Sensor
- GX1 Fuel Delivery Unit
- G6 Transfer Fuel Pump
- J538 Fuel Pump Control Module
- SC Fuse Panel C
- SC47 Fuse 47 (On Fuse Panel C)
- T5b 5-Pin Connector
- T10n 10-Pin Connector
- 196 Ground Connection 3 (in Rear Wiring Harness)
- 682 Ground Connection 2 in Right Rear Side Panel
- B170 Positive Connection 2 (30) (in Interior Wiring Harness)



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- vi = lilac
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Engine Control Module

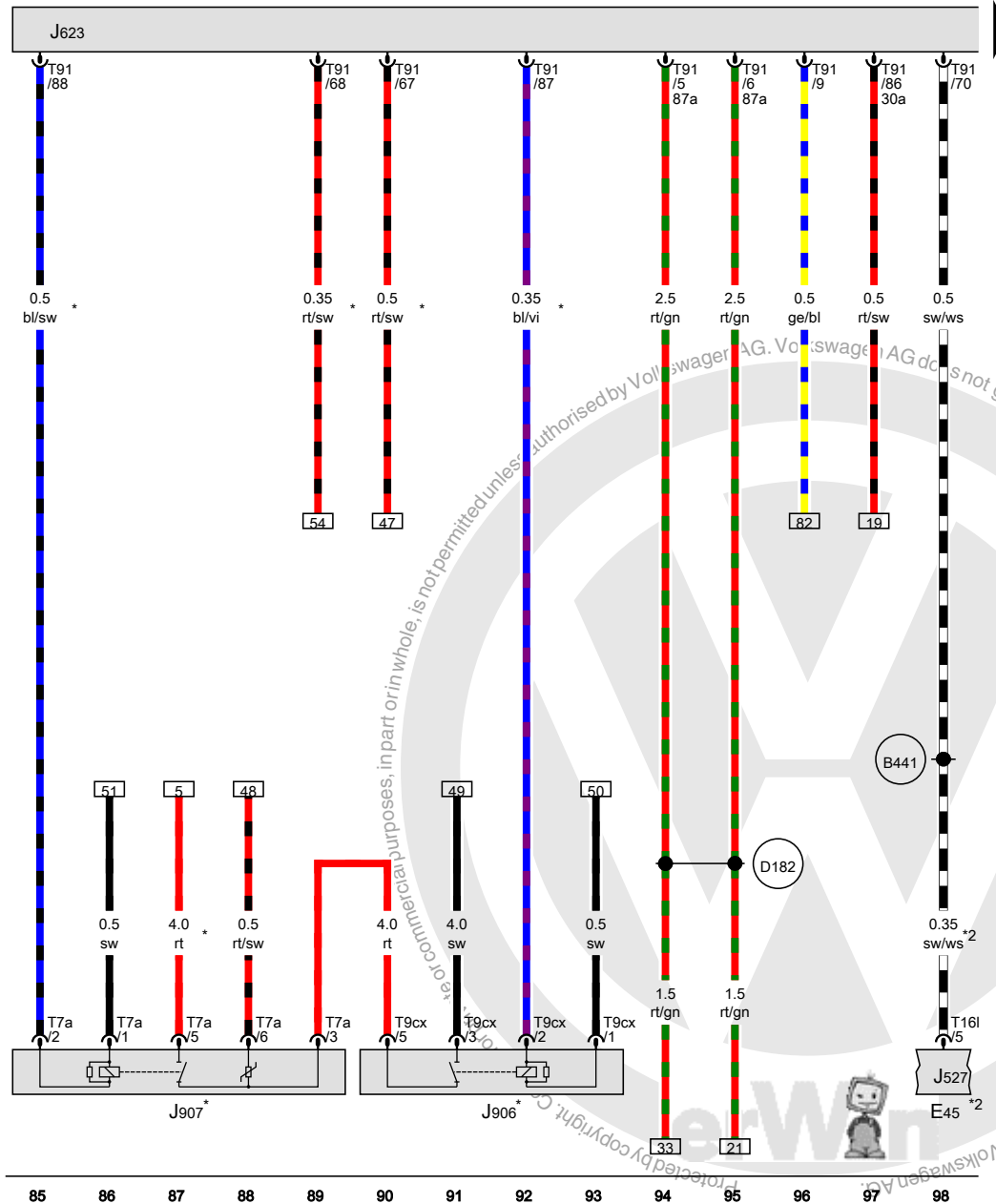
- E45 Cruise Control Switch
- J527 Steering Column Electronics Control Module
- J623 Engine Control Module
- J906 Starter Relay 1
- J907 Starter Relay 2
- T7a 7-Pin Connector
- T9cx 9-Pin Connector
- T16l 16-Pin Connector
- T91 91-Pin Connector

(B441) Cruise Control Connection (in Main Wiring Harness)

(D182) Connection 3 (87A) (in Engine Compartment Wiring Harness)

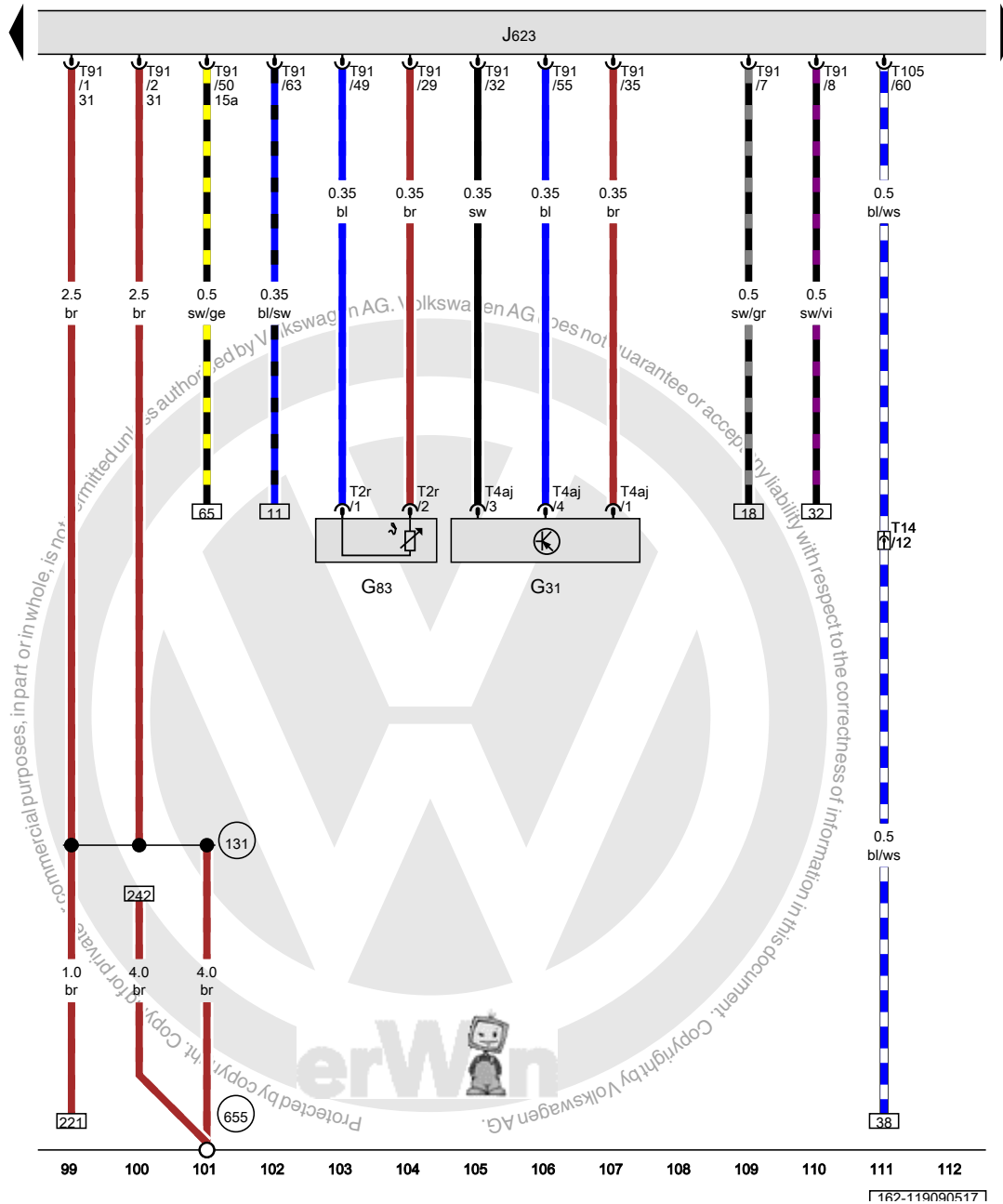
* Depending on Equipment

*2 For Vehicles with Cruise Control System



- ws = white
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- ro = red
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- gn = green
- bl = blue
- gr = grey
- ll = lilac
- vi = lilac
- ge = yellow
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Charge Air Pressure Sensor, Engine Coolant Temperature Sensor on Radiator Outlet, Engine Control Module



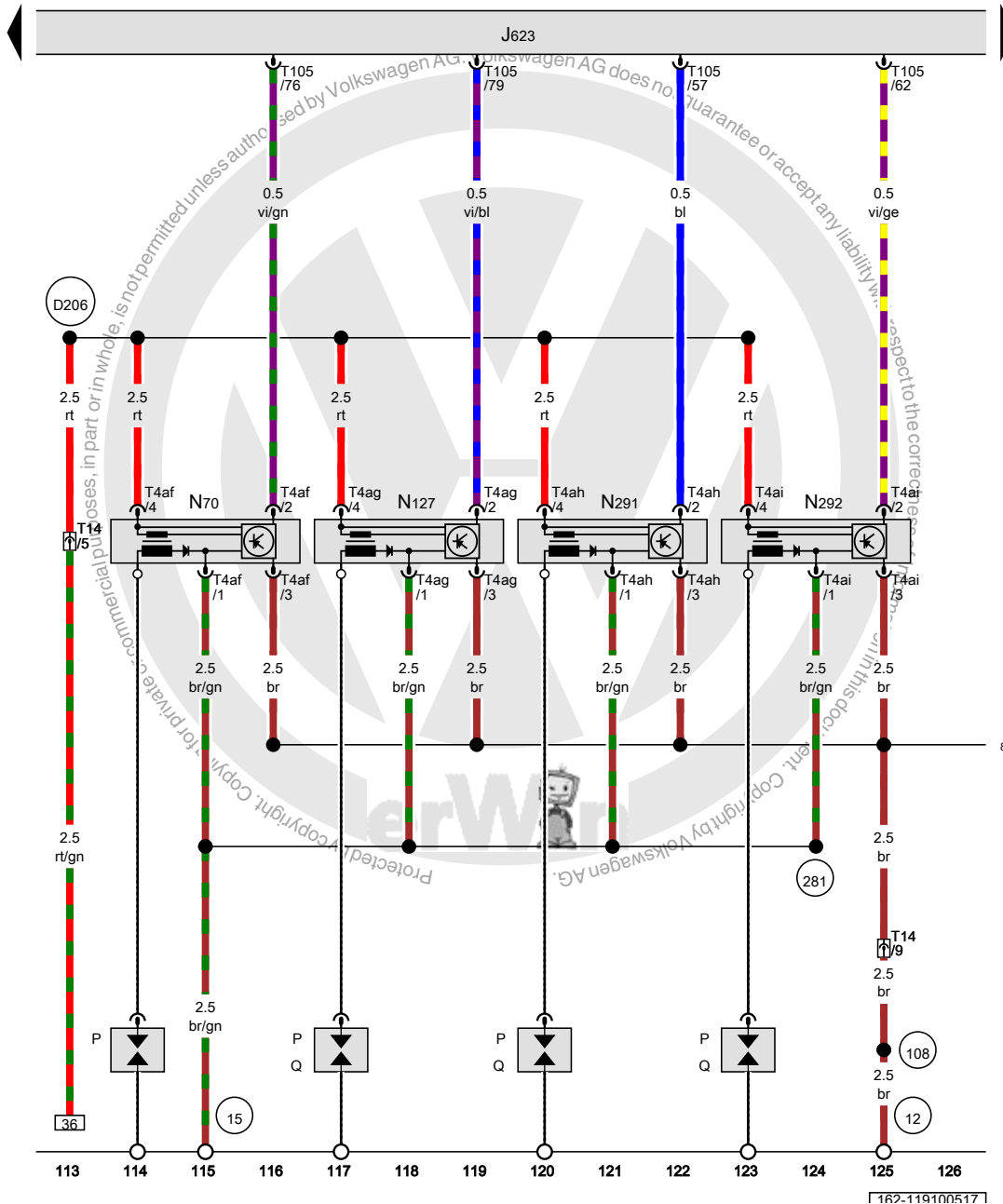
- 131** Ground Connection 2 (in Engine Compartment Wiring Harness)
- 655** Ground Connection on Left Headlamp

Engine Control Module, Ignition Coil 1 with Power Output Stage, Ignition Coil 2 with Power Output Stage, Ignition Coil 3 with Power Output Stage, Ignition Coil 4 with Power Output Stage

- J623 Engine Control Module
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T4af 4-Pin Connector
- T4ag 4-Pin Connector
- T4ah 4-Pin Connector
- T4ai 4-Pin Connector
- T14 14-Pin Connector
- T105 105-Pin Connector

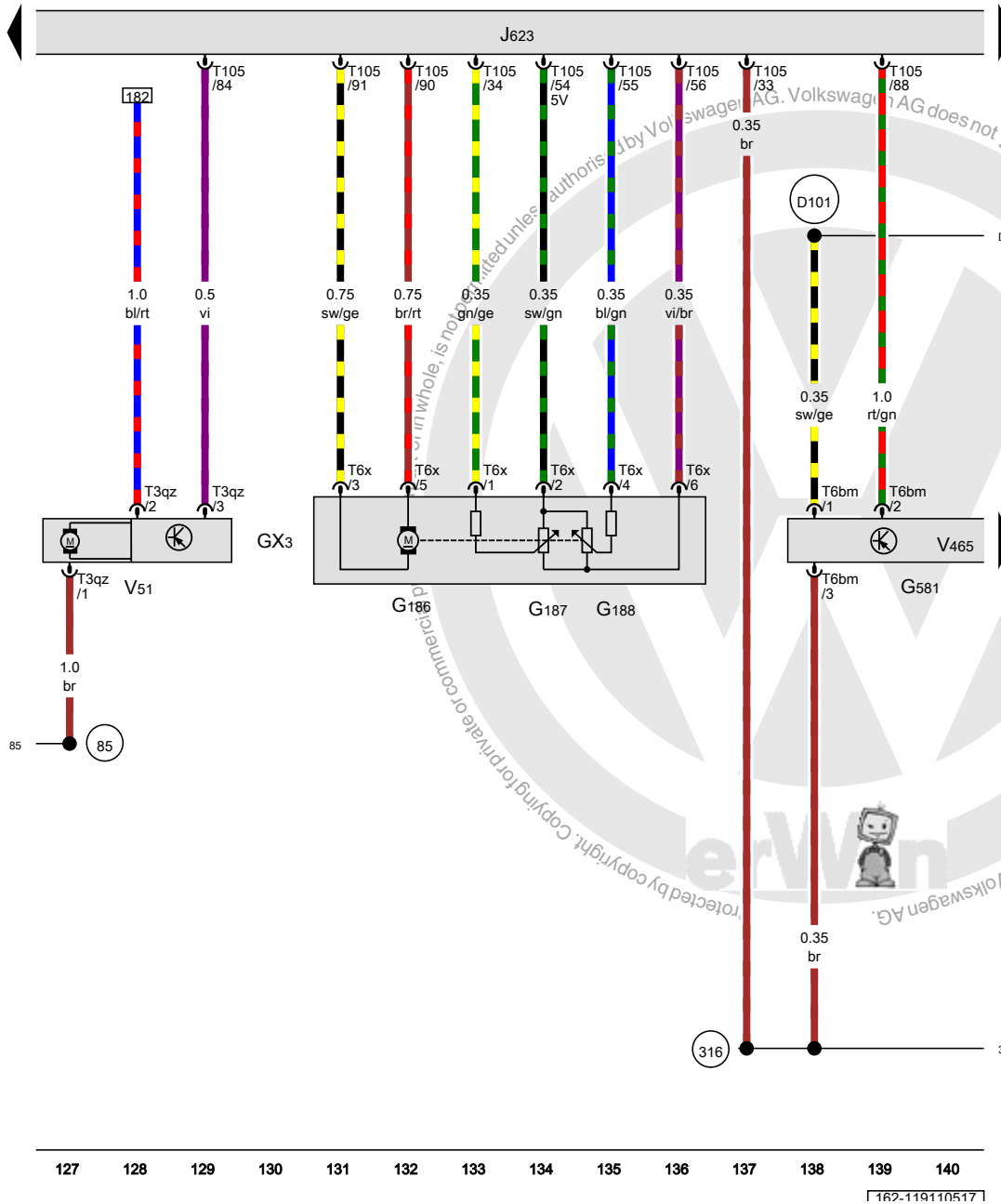
- 12 Ground Connection in Engine Compartment, Left
- 15 Ground Connection on Cylinder Head
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 108 Ground Connection 2 (in Left Front Wiring Harness)
- 281 Ground Connection 1 (in Engine Pre-Wiring Harness)
- D206 Connection 87A (in Engine Pre-Wiring Harness) 4

- ws = white
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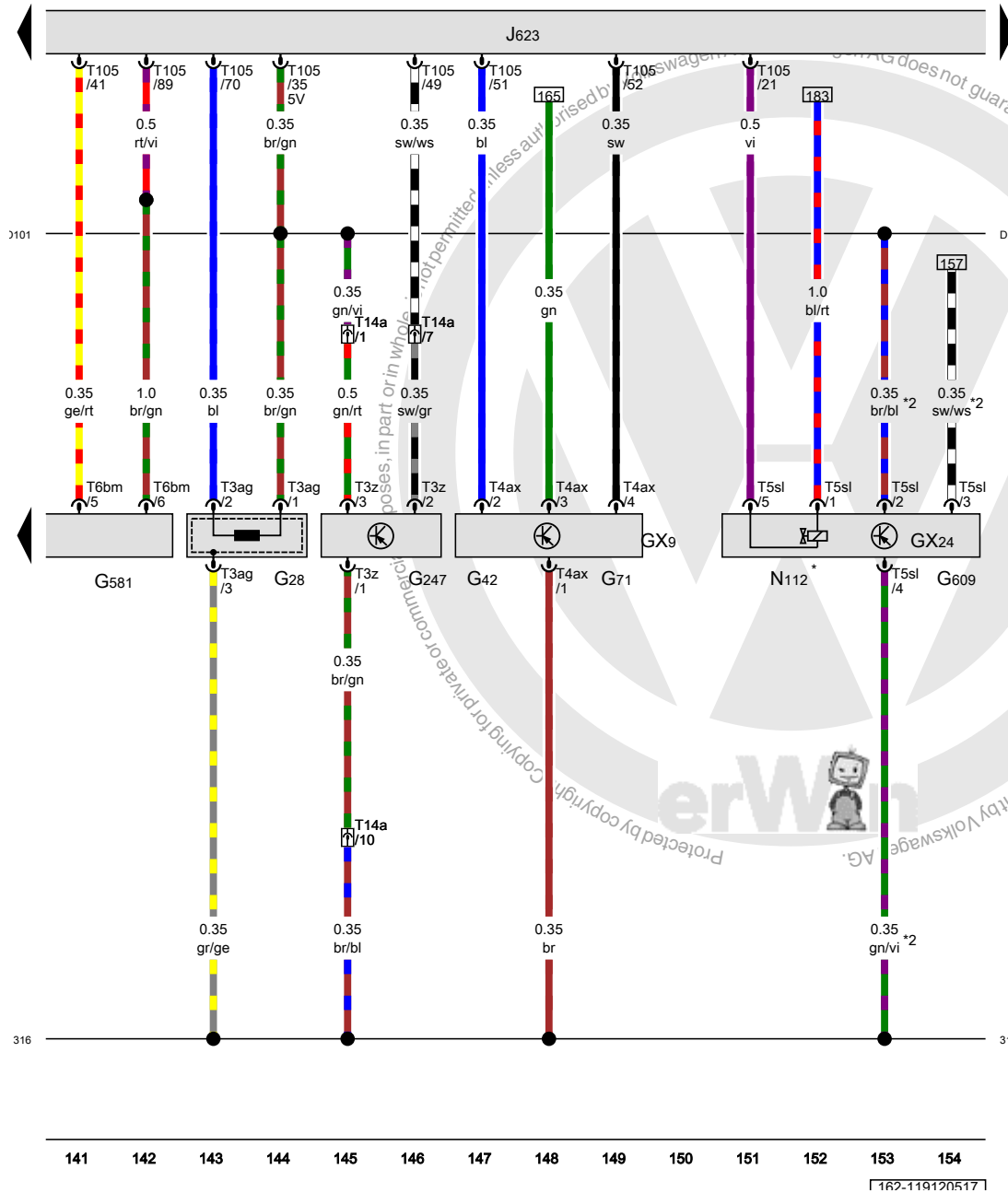


162-119100517

EPC Throttle Drive, Charge Air Pressure Actuator Position Sensor, Engine Control Module, After-Run Coolant Pump



- GX3 Throttle Valve Control Module
- G186 EPC Throttle Drive
- G187 EPC Throttle Drive Angle Sensor 1
- G188 EPC Throttle Drive Angle Sensor 2
- G581 Charge Air Pressure Actuator Position Sensor
- J623 Engine Control Module
- T3qz 3-Pin Connector
- T6bm 6-Pin Connector
- T6x 6-Pin Connector
- T105 105-Pin Connector
- V51 After-Run Coolant Pump
- V465 Charge Air Pressure Actuator
- 85 Ground Connection 1 (in Engine Compartment Wiring Harness)
- 316 Sensor Ground Connection 2 (in Engine Wiring Harness)
- D101 Connection 1 (in Engine Compartment Wiring Harness)



Intake Manifold Sensor, Secondary Air System, Engine Speed Sensor, Fuel Pressure Sensor, Charge Air Pressure Actuator Position Sensor, Secondary Air Injection Sensor 1, Engine Control Module

- GX9 Intake Manifold Sensor
- GX24 Secondary Air System
- G28 Engine Speed Sensor
- G42 Intake Air Temperature Sensor
- G71 Manifold Absolute Pressure Sensor
- G247 Fuel Pressure Sensor
- G581 Charge Air Pressure Actuator Position Sensor
- G609 Secondary Air Injection Sensor 1
- J623 Engine Control Module
- N112 Secondary Air Injection Solenoid Valve
- T3ag 3-Pin Connector
- T3z 3-Pin Connector
- T4ax 4-Pin Connector
- T5sl 5-Pin Connector
- T6bm 6-Pin Connector
- T14a 14-Pin Connector
- T105 105-Pin Connector

316 Sensor Ground Connection 2 (in Engine Wiring Harness)

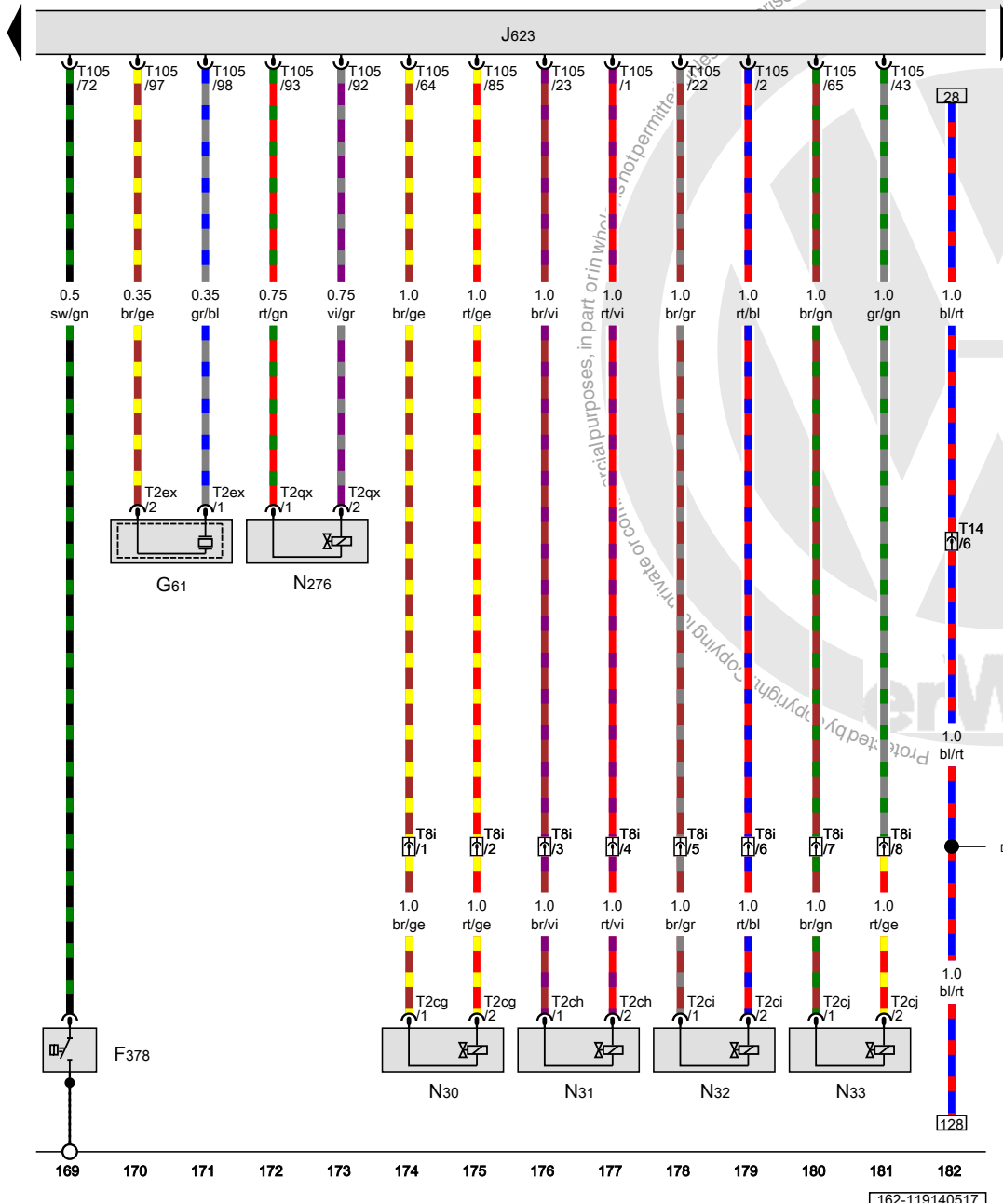
D101 Connection 1 (in Engine Compartment Wiring Harness)

* Depending on Equipment
*2 Through September 2013

Camshaft Position Sensor, Engine Coolant Temperature Sensor, Intake Manifold Runner Position Sensor, Engine Control Module

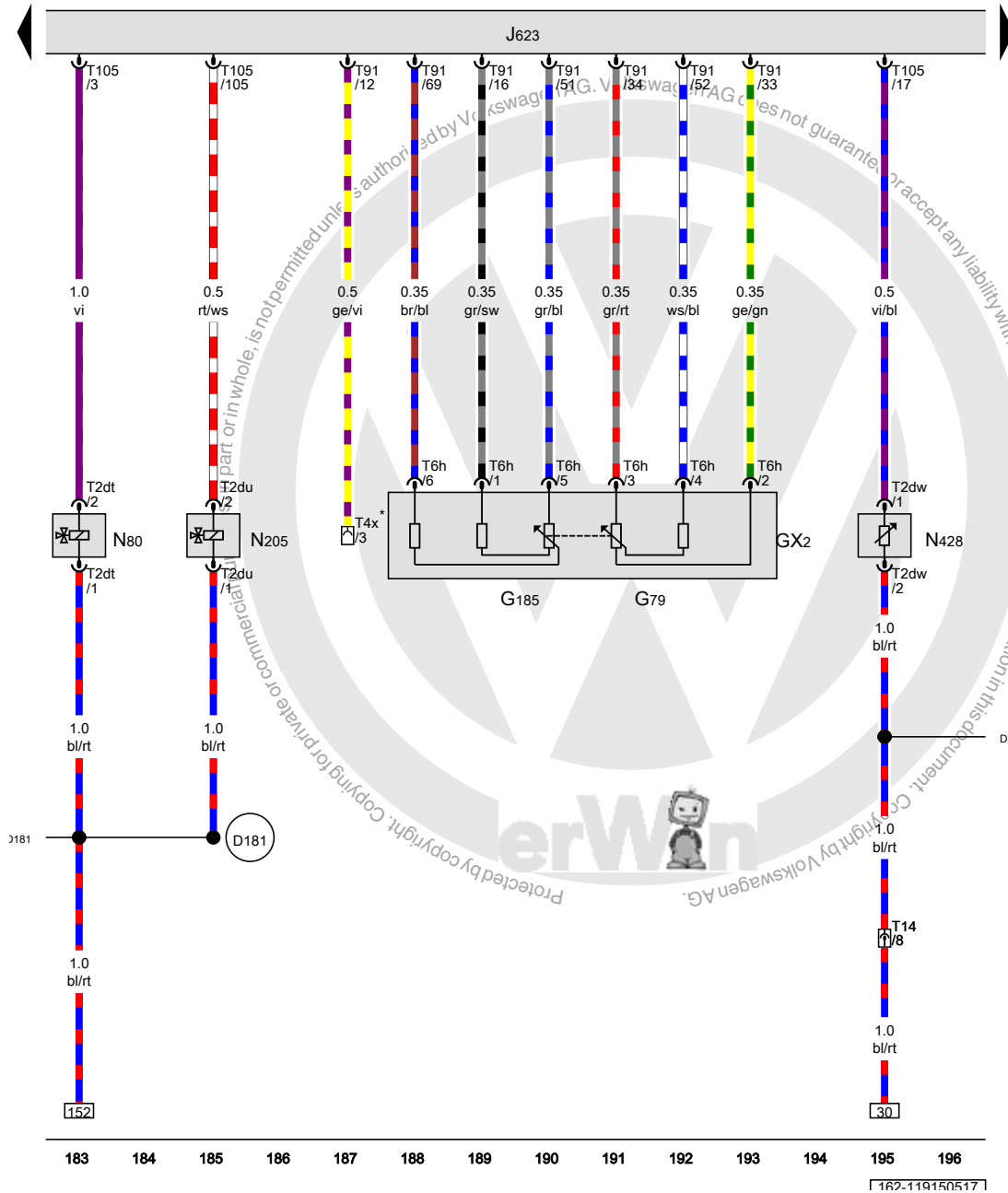
| | |
|------|---|
| G40 | Camshaft Position Sensor |
| G62 | Engine Coolant Temperature Sensor |
| G336 | Intake Manifold Runner Position Sensor |
| G610 | Secondary Air Injection Sensor 2 |
| J623 | Engine Control Module |
| T2dp | 2-Pin Connector |
| T3b | 3-Pin Connector |
| T3be | 3-Pin Connector |
| T3cl | 3-Pin Connector |
| T14a | 14-Pin Connector |
| T105 | 105-Pin Connector |
| 220 | Sensor Ground Connection (in Engine Wiring Harness) |
| 316 | Sensor Ground Connection 2 (in Engine Wiring Harness) |
| D101 | Connection 1 (in Engine Compartment Wiring Harness) |
| D108 | Connection 6 (in Engine Compartment Wiring Harness) |
| * | From September 2013 |
| *2 | Through September 2013 |

| | | |
|----|---|--------|
| ws | = | white |
| sw | = | black |
| ro | = | red |
| rt | = | red |
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| gr | = | grey |
| li | = | lilac |
| vi | = | lilac |
| ge | = | yellow |
| or | = | orange |
| rs | = | pink |



Reduced Oil Pressure Switch, Knock Sensor 1, Engine Control Module, Cylinder 1 Fuel Injector, Cylinder 2 Fuel Injector, Cylinder 3 Fuel Injector, Cylinder 4 Fuel Injector, Fuel Pressure Regulator Valve

- F378 Reduced Oil Pressure Switch
- G61 Knock Sensor 1
- J623 Engine Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N276 Fuel Pressure Regulator Valve
- T2cg 2-Pin Connector
- T2ch 2-Pin Connector
- T2ci 2-Pin Connector
- T2cj 2-Pin Connector
- T2ex 2-Pin Connector
- T2qx 2-Pin Connector
- T8i 8-Pin Connector
- T14 14-Pin Connector
- T105 105-Pin Connector
- D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)



Accelerator Pedal Module, Accelerator Pedal Position Sensor, Engine Control Module, EVAP Canister Purge Regulator Valve 1, Camshaft Adjustment Valve 1, Oil Pressure Regulation Valve

- GX2 Accelerator Pedal Module
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine Control Module
- N80 EVAP Canister Purge Regulator Valve 1
- N205 Camshaft Adjustment Valve 1
- N428 Oil Pressure Regulation Valve
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T2dw 2-Pin Connector
- T4x 4-Pin Connector
- T6h 6-Pin Connector
- T14 14-Pin Connector
- T91 91-Pin Connector
- T105 105-Pin Connector

D181 Connection 2 (87A) (in Engine Compartment Wiring Harness)

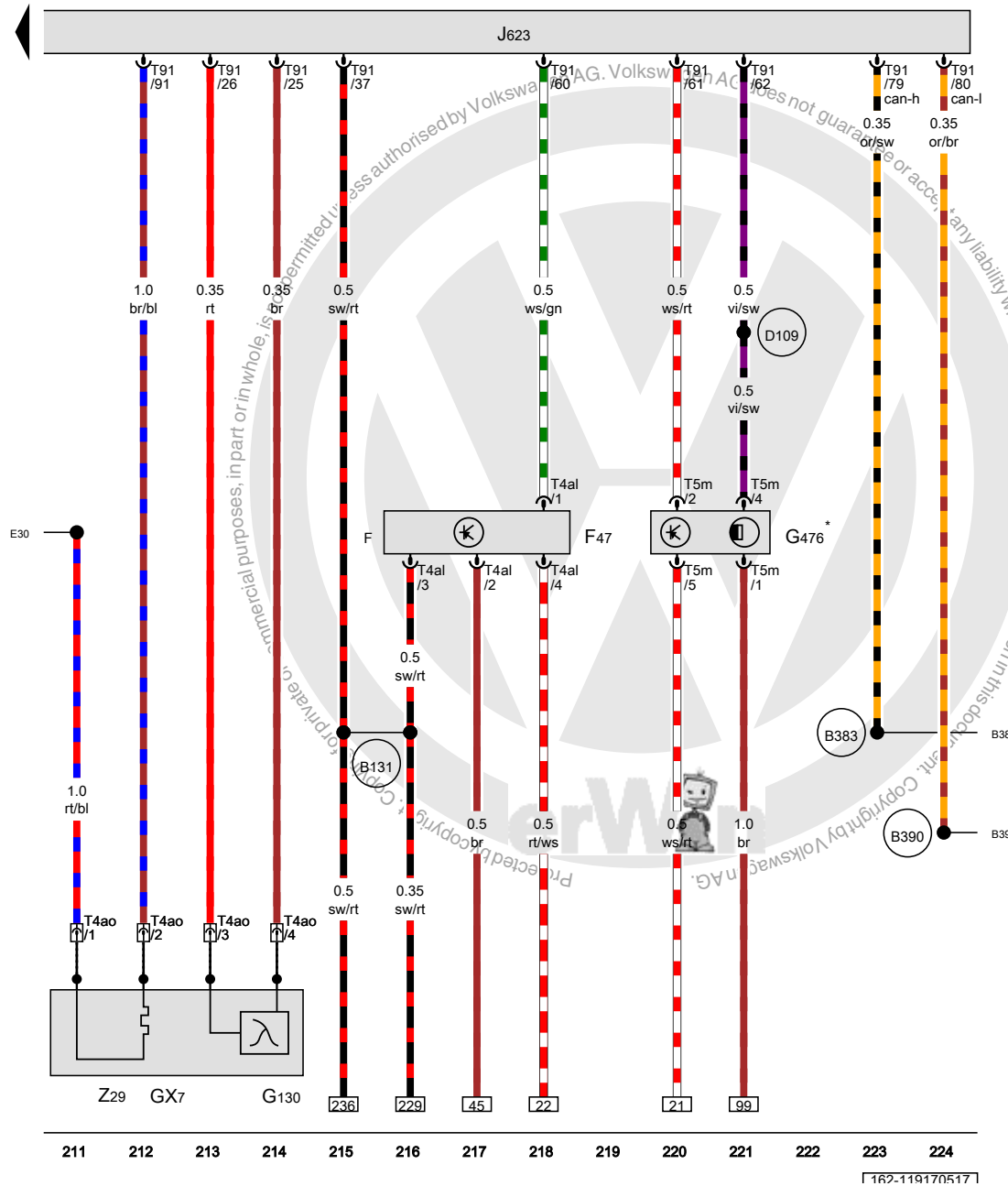
D189 Connection 87A (in Engine Pre-Wiring Harness)

* Radiator Fan Connection



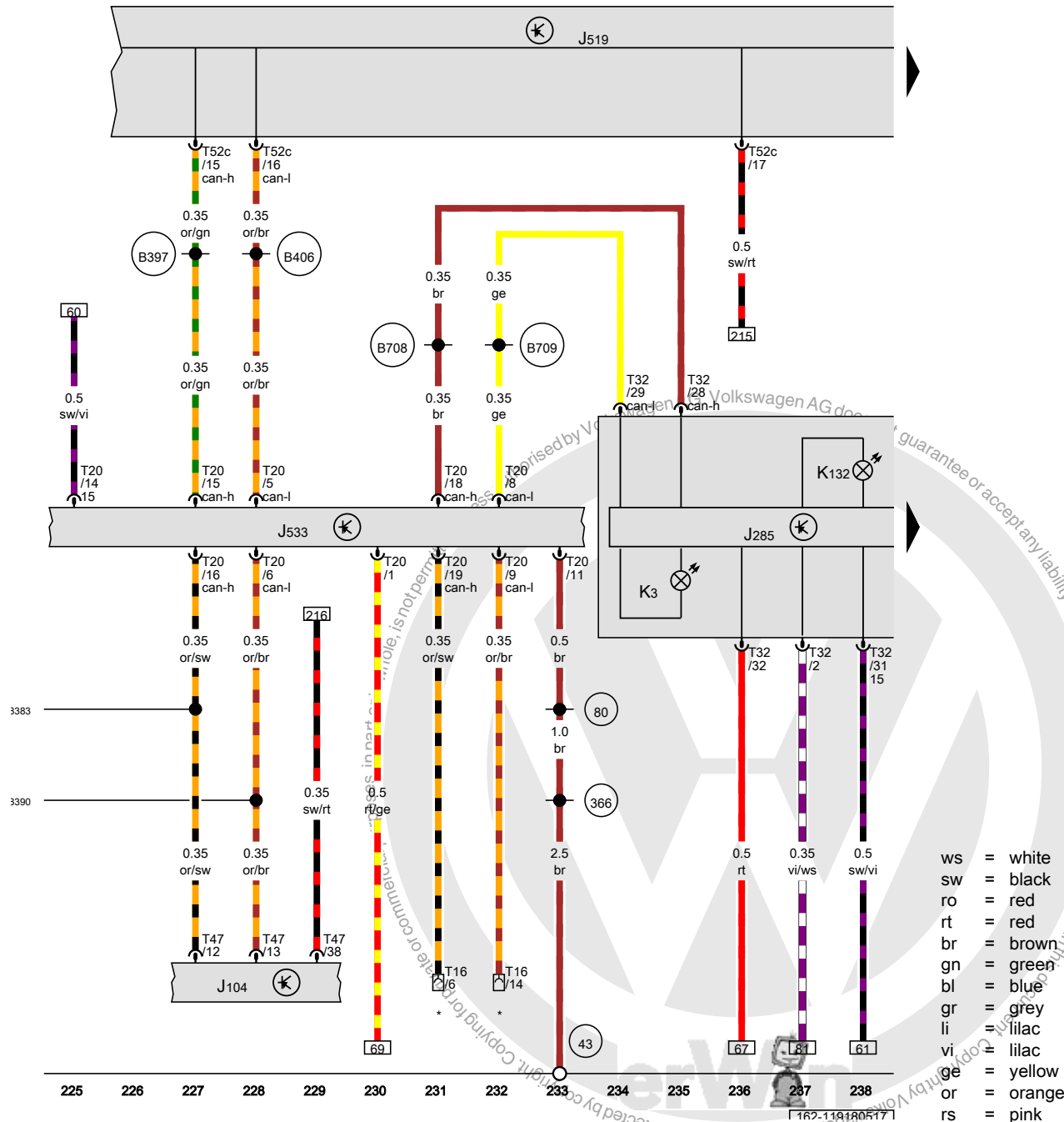
* Depending on Equipment

Brake Lamp Switch, Brake Pedal Switch, Oxygen Sensor 1 After Catalytic Converter, Oxygen Sensor After Catalytic Converter, Clutch Position Sensor, Engine Control Module



- F Brake Lamp Switch
- F47 Brake Pedal Switch
- GX7 Oxygen Sensor 1 After Catalytic Converter
- G130 Oxygen Sensor After Catalytic Converter
- G476 Clutch Position Sensor
- J623 Engine Control Module
- T4al 4-Pin Connector
- T4ao 4-Pin Connector
- T5m 5-Pin Connector
- T91 91-Pin Connector
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- (B131) Connection 54 (in Interior Wiring Harness)
- (B383) Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- (B390) Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- (D109) Connection 7 (in Engine Compartment Wiring Harness)
- (E30) Connection 87A (in Engine Wiring Harness)
- * For Vehicles with a Manual Transmission

ws = white
 sw = black
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 gn = green
 bl = blue
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 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

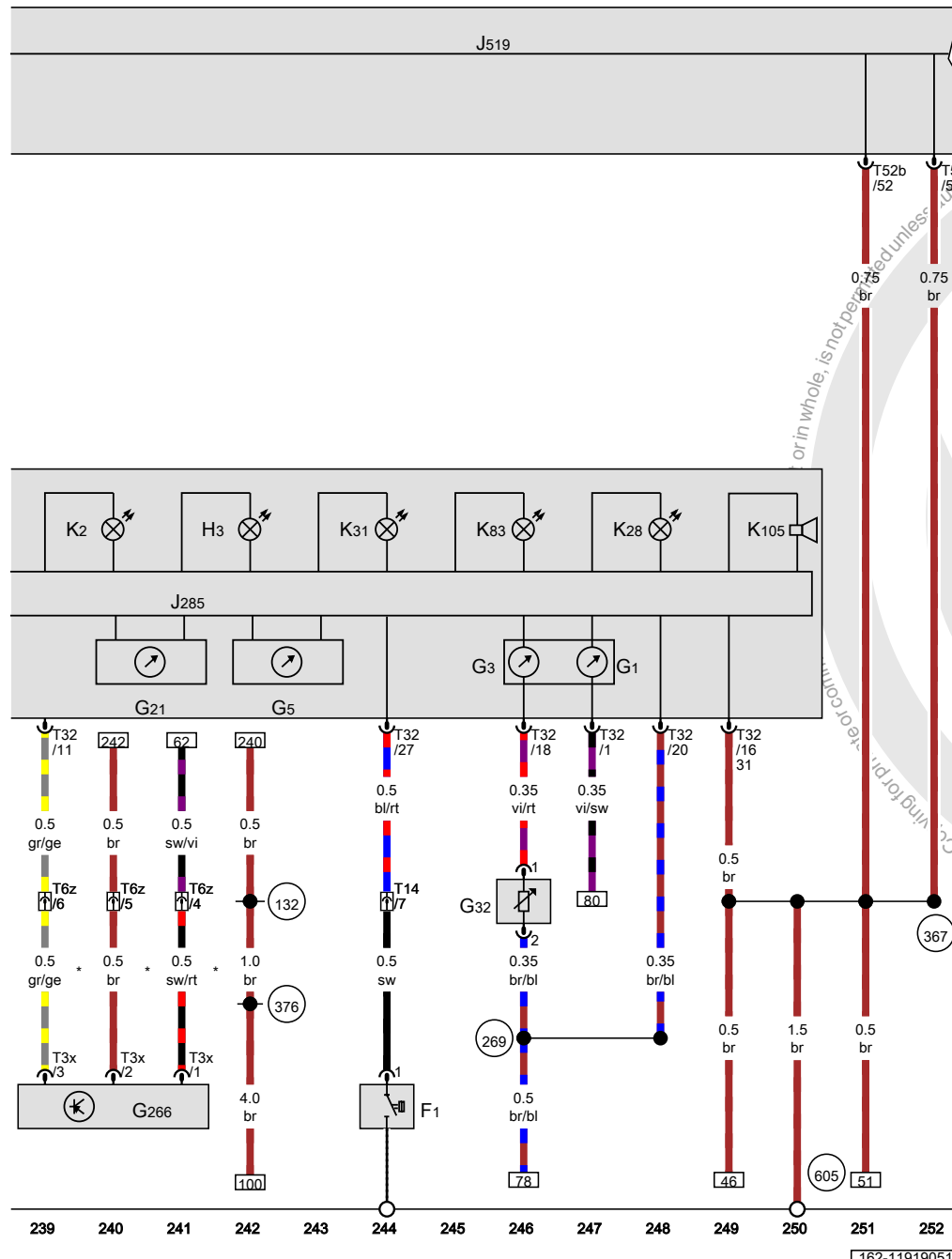


Instrument Cluster Control Module, Vehicle Electrical System Control Module, Data Bus on Board Diagnostic Interface, Electronic Power Control Malfunction Indicator Lamp

- J104 ABS Control Module
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- J533 Data Bus on Board Diagnostic Interface
- K3 Oil Pressure Indicator Lamp
- K132 Electronic Power Control Malfunction Indicator Lamp
- T16 16-Pin Connector, Near the Lower Left A-Pillar
- T20 20-Pin Connector
- T32 32-Pin Connector
- T47 47-Pin Connector
- T52c 52-Pin Connector

- 43 Ground Connection on A-Pillar, Lower Right
- 80 Ground Connection 1 (in Instrument Cluster Wiring Harness)
- 366 Ground Connection 1 (in Main Wiring Harness)
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
- B397 Comfort System CAN Bus High Connection 1 (in Main Wiring Harness)
- B406 Comfort System CAN Bus Low Connection 1 (in Main Wiring Harness)
- B708 Instrument Cluster CAN Bus High Connection 1 (in Main Wiring Harness)
- B709 Instrument Cluster CAN Bus Low Connection 1 (in Main Wiring Harness)
- * Diagnostic Connector

Oil Pressure Switch, Fuel Gauge, Engine Coolant Temperature Gauge, Tachometer, Speedometer, Instrument Cluster Control Module, Vehicle Electrical System Control Module, Generator Indicator Lamp, Engine Coolant Level/Temperature Indicator Lamp, Cruise Control Indicator Lamp, Low Fuel Level Indicator Lamp



- F1 Oil Pressure Switch
- G1 Fuel Gauge
- G3 Engine Coolant Temperature Gauge
- G5 Tachometer
- G21 Speedometer
- G32 Engine Coolant Level Sensor
- G266 Oil Level Thermal Sensor
- H3 Warning Buzzer and Tone
- J285 Instrument Cluster Control Module
- J519 Vehicle Electrical System Control Module
- K2 Generator Indicator Lamp
- K28 Engine Coolant Level/Temperature Indicator Lamp
- K31 Cruise Control Indicator Lamp
- K83 Malfunction Indicator Lamp
- K105 Low Fuel Level Indicator Lamp
- T3x 3-Pin Connector
- T6z 6-Pin Connector, Near the Left Headlamp
- T14 14-Pin Connector
- T32 32-Pin Connector
- T52b 52-Pin Connector
- T52c 52-Pin Connector
- 132 Ground Connection 3 (in Engine Compartment Wiring Harness)
- 269 Sensor Ground Connection 1 (in Instrument Panel Wiring Harness)
- 367 Ground Connection 2 (in Main Wiring Harness)
- 376 Ground Connection 11 (in Main Wiring Harness)
- 605 Ground Connection on Upper Steering Column
- * For Vehicles Without Flexible Service Interval Display

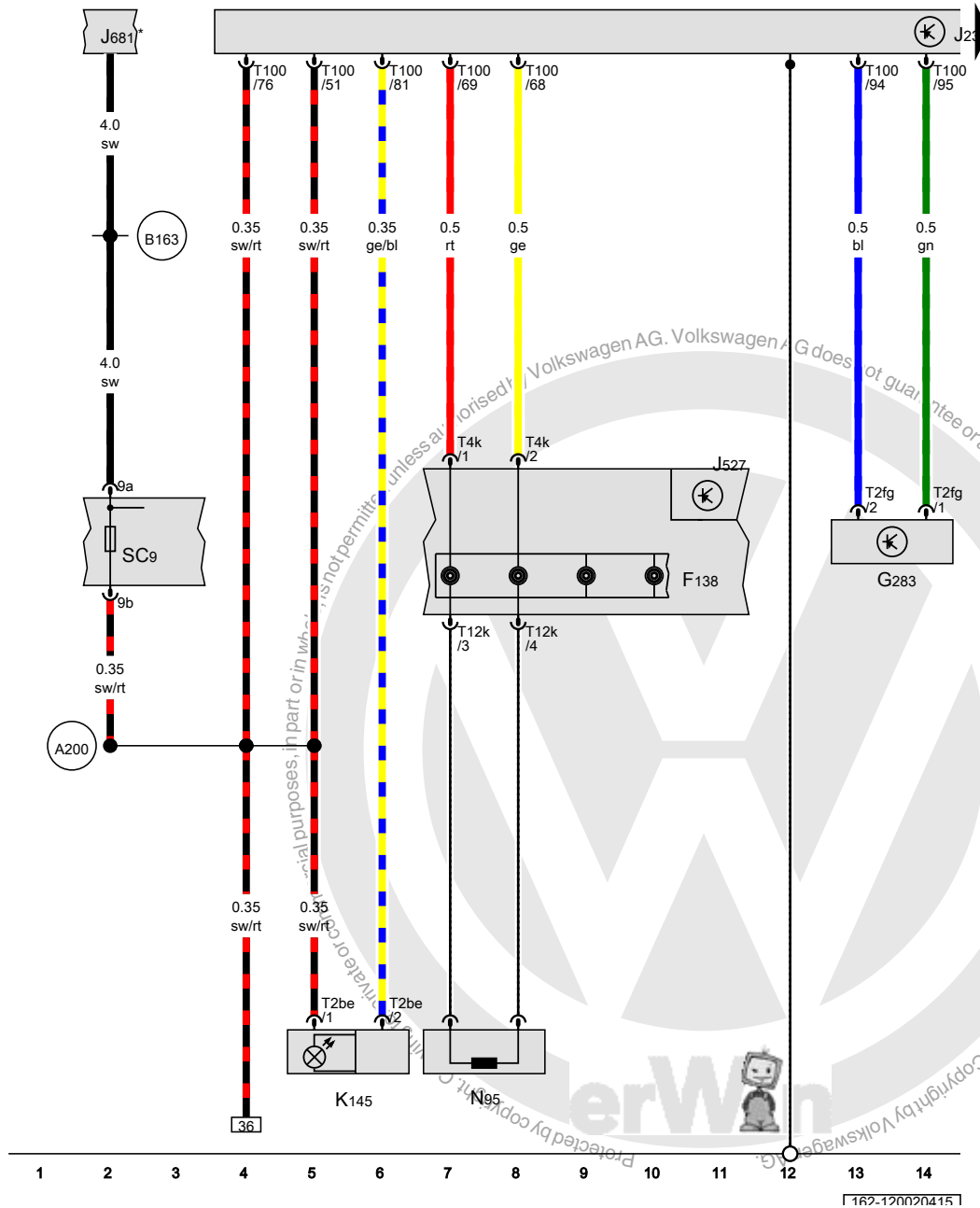
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Airbag systems (USA) , (0K0)

from July 2013

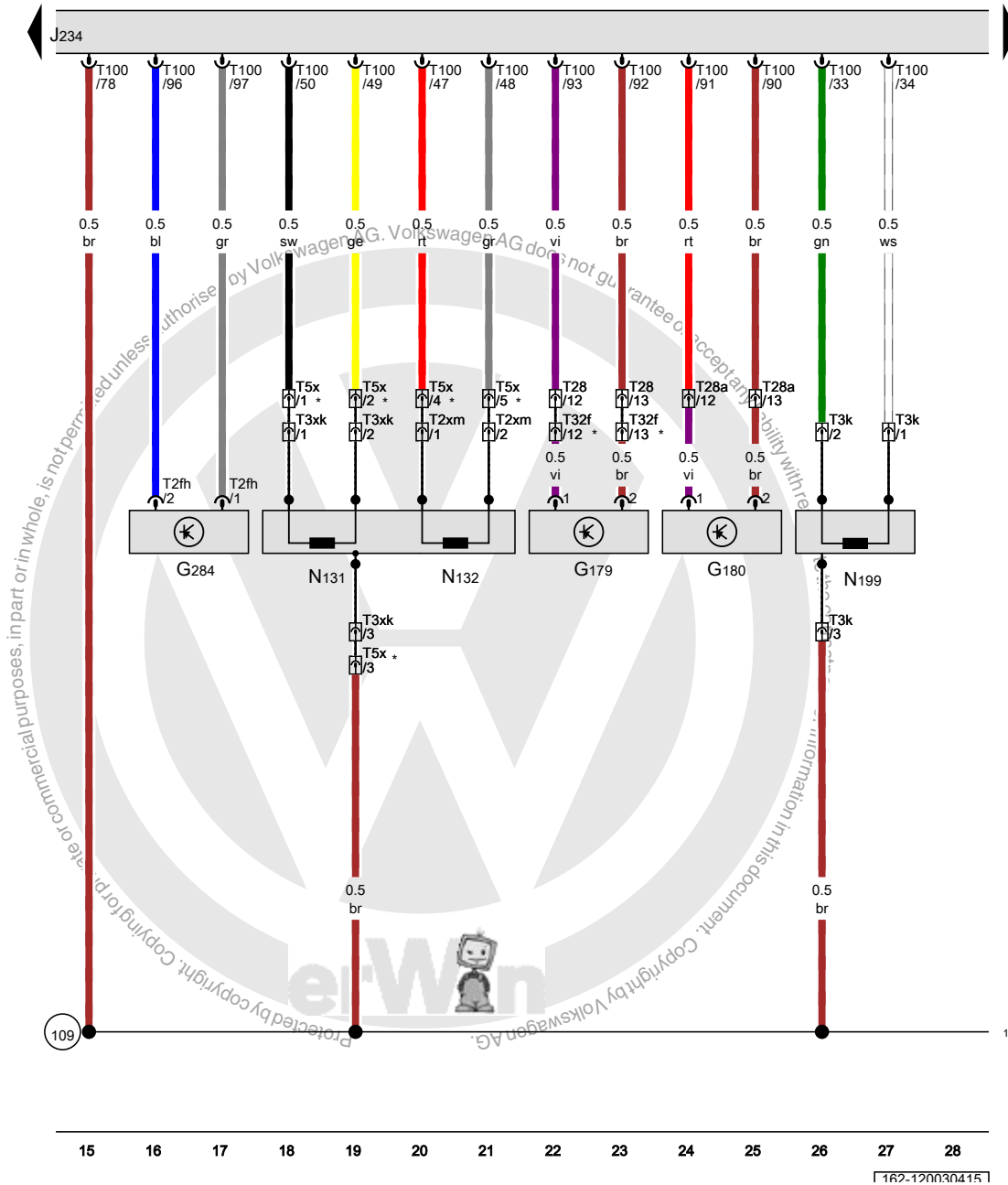


Airbag spiral spring/return spring with slip ring, Driver front airbag crash sensor, Airbag control module, Steering column electronics control module, Front passenger airbag -disabled- indicator lamp, Driver airbag igniter



- F138 Airbag spiral spring/return spring with slip ring
- G283 Driver front airbag crash sensor
- J234 Airbag control module
- J527 Steering column electronics control module
- J681 Terminal 15 power supply relay 2
- K145 Front passenger airbag -disabled- indicator lamp
- N95 Driver airbag igniter
- SC9 Fuse 9 (on fuse panel C)
- T2be Double connector
- T2fg Double connector
- T4k 4-pin connector
- T9f 9-pin connector
- T12k 12-pin connector
- T100 100-pin connector
- (A200) Positive connection 5 (15a) (in instrument panel wiring harness)
- (B163) Positive connection 1 (15) (in interior wiring harness)
- * Refer to applicable standard equipment wiring diagram

ws = white
 sw = black
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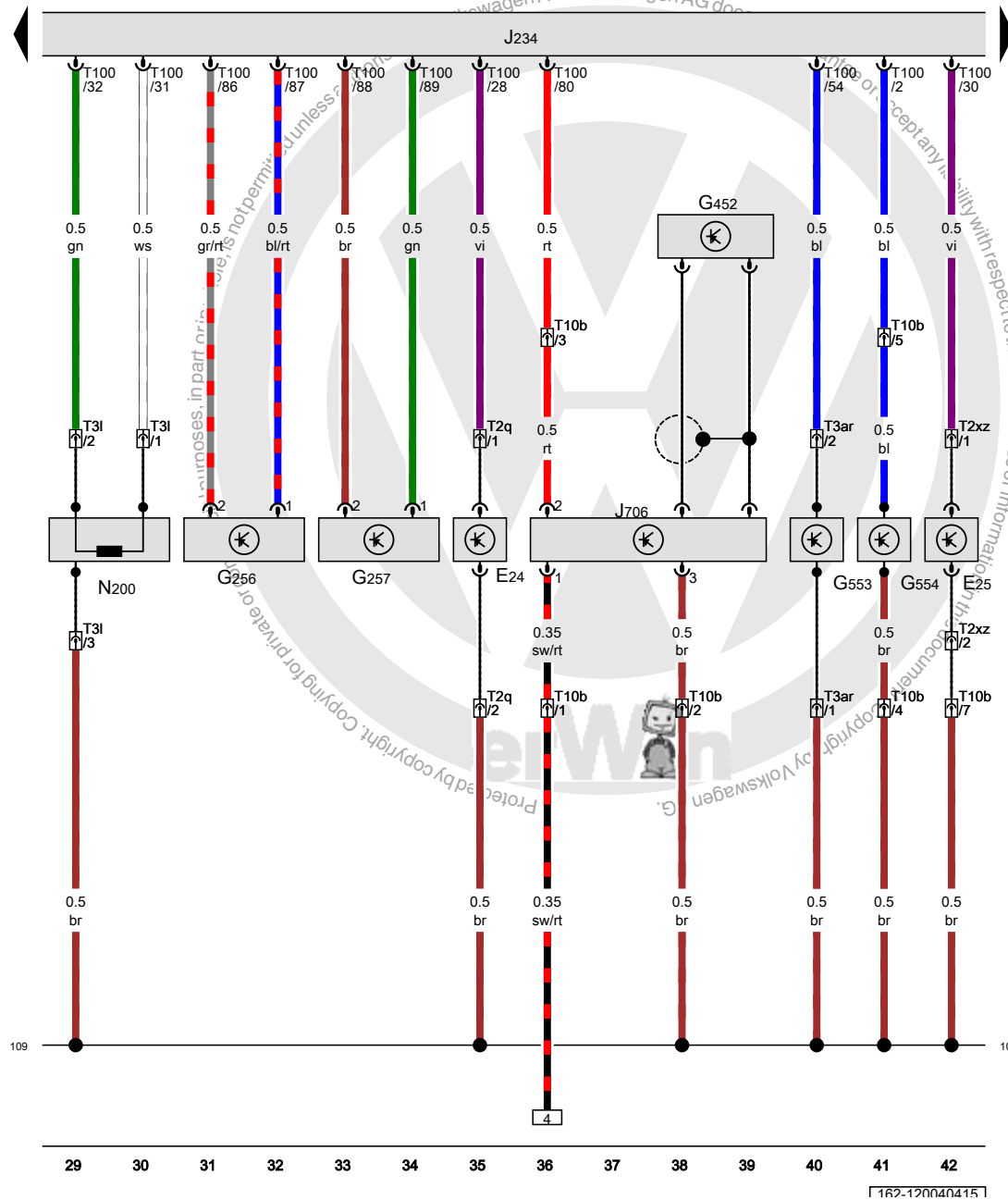
Driver side airbag crash sensor, Front passenger side airbag crash sensor, Passenger side front airbag crash sensor, Airbag control module, Front passenger airbag igniter 1, Front passenger airbag igniter 2

- G179 Driver side airbag crash sensor
- G180 Front passenger side airbag crash sensor
- G284 Passenger side front airbag crash sensor
- J234 Airbag control module
- N131 Front passenger airbag igniter 1
- N132 Front passenger airbag igniter 2
- N199 Driver thorax airbag igniter
- T2fh Double connector
- T2xm Double connector
- T3k 3-pin connector, under the driver seat
- T3xk 3-pin connector
- T5x 5-pin connector
- T28 28-pin connector
- T28a 28-pin connector
- T32f 32-pin connector
- T100 100-pin connector

109 Ground connection (in airbag wiring harness)

* Depending on equipment

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 or = orange
 rs = pink

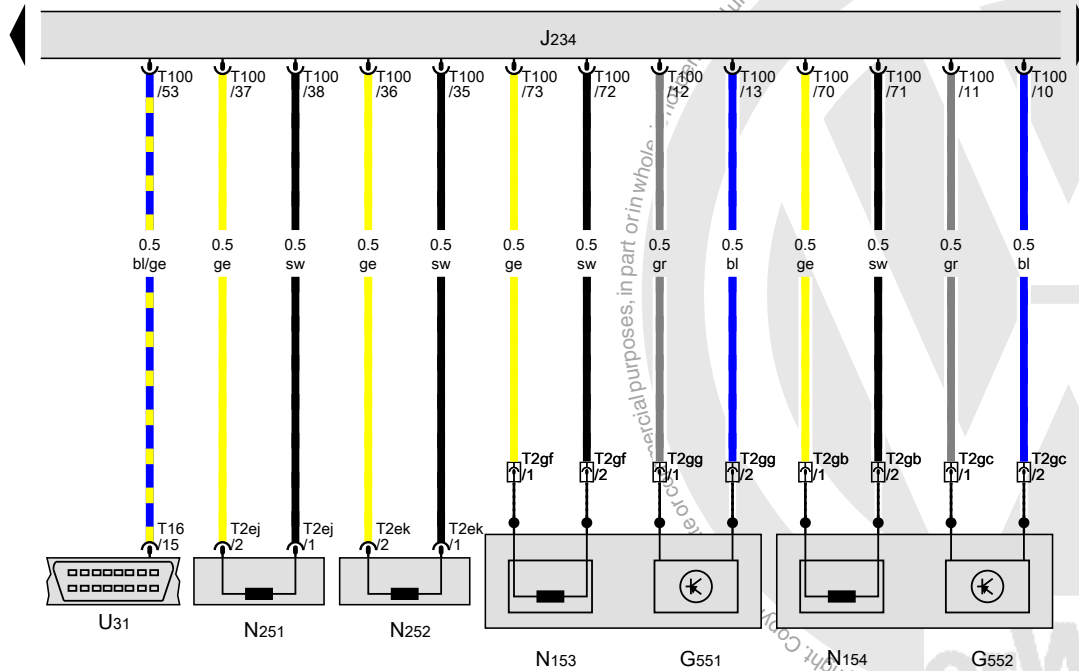


Driver seat belt switch, Front passenger seat belt switch, Driver side rear side airbag crash sensor, Passenger side rear side airbag crash sensor, Passenger occupant detection system pressure sensor, Driver seat position sensor, Front passenger seat position sensor, Airbag control module, Passenger occupant detection system control module, Front passenger thorax airbag igniter

- E24 Driver seat belt switch
- E25 Front passenger seat belt switch
- G256 Driver side rear side airbag crash sensor
- G257 Passenger side rear side airbag crash sensor
- G452 Passenger occupant detection system pressure sensor
- G553 Driver seat position sensor
- G554 Front passenger seat position sensor
- J234 Airbag control module
- J706 Passenger occupant detection system control module
- N200 Front passenger thorax airbag igniter
- T2q Double connector, under the driver seat
- T2xz Double connector, under the front passenger seat
- T3ar 3-pin connector
- T3I 3-pin connector, under the front passenger seat
- T10b 10-pin connector
- T100 100-pin connector

109 Ground connection (in airbag wiring harness)

- ws = white
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Driver belt force limiter, Front passenger belt force limiter, Airbag control module, Driver seat belt tensioner igniter 1, Driver head curtain airbag igniter, Front passenger head curtain airbag igniter

- G551 Driver belt force limiter
- G552 Front passenger belt force limiter
- J234 Airbag control module
- N153 Driver seat belt tensioner igniter 1
- N154 Front passenger seat belt tensioner igniter
- N251 Driver head curtain airbag igniter
- N252 Front passenger head curtain airbag igniter
- T2ej Double connector
- T2ek Double connector
- T2gb Double connector
- T2gc Double connector
- T2gf Double connector
- T2gg Double connector
- T16 16-pin connector
- T100 100-pin connector
- U31 Diagnostic connection

109 Ground connection (in airbag wiring harness)

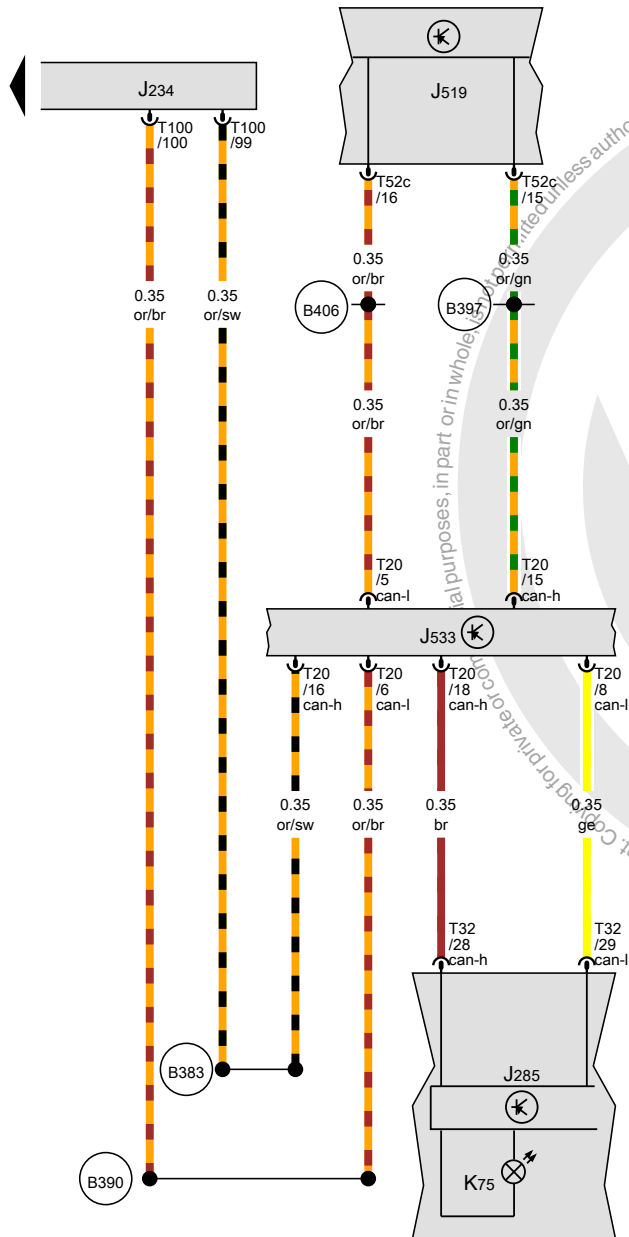
* Depending on equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

109

43 44 45 46 47 48 49 50 51 52 53 54 55 56

162-120050415



Airbag control module, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Airbag indicator lamp

- J234 Airbag control module
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- K75 Airbag indicator lamp
- T20 20-pin connector
- T32 32-pin connector
- T52c 52-pin connector
- T100 100-pin connector
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

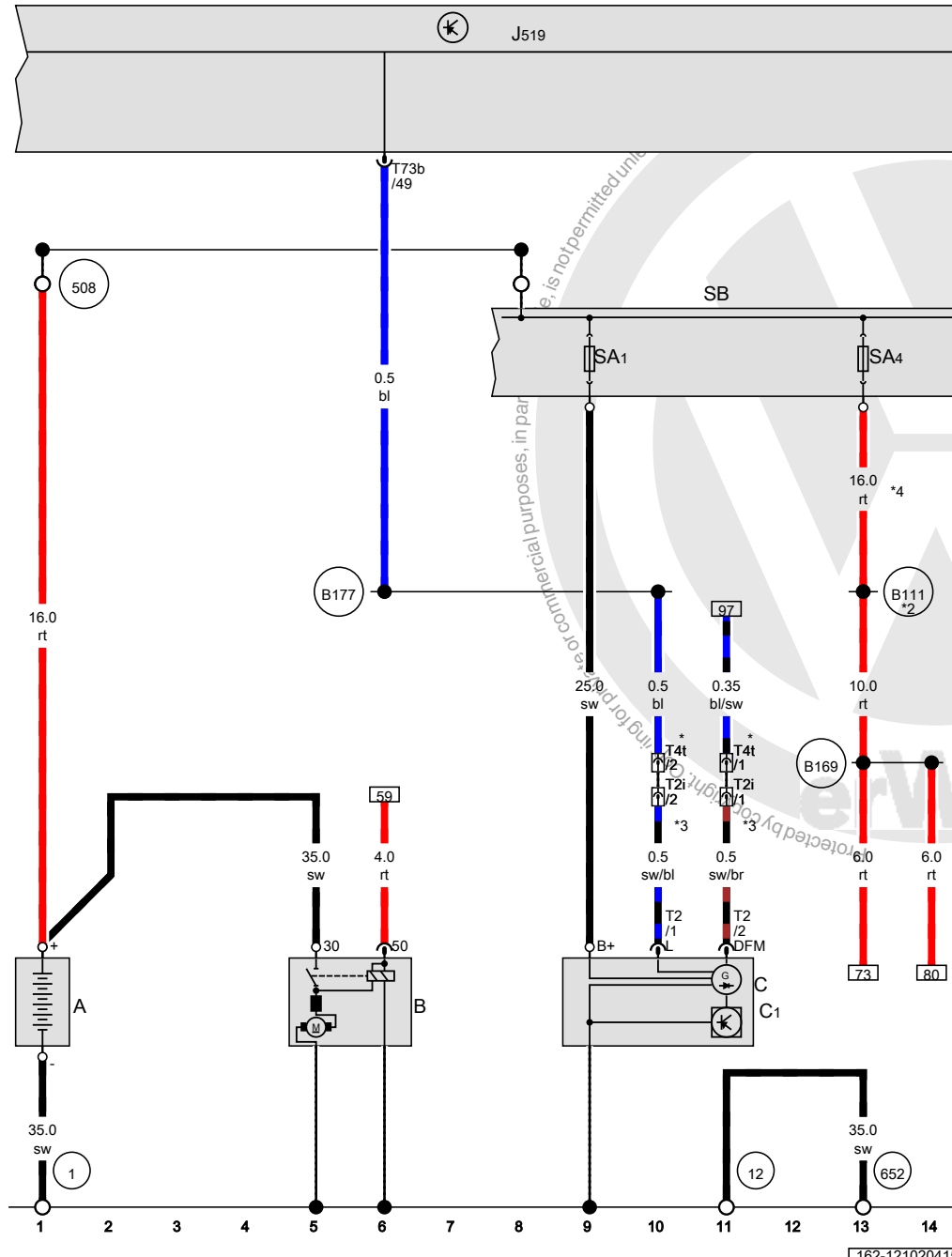
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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

2.5L gasoline engine, Low (AW0) , CBTA,CCCA,(7GC),(AW0)

from April 2010



Battery, Starter, Generator, Vehicle electrical control module system, Fuse panel B



- A Battery
- B Starter
- C Generator
- C1 Voltage regulator
- J519 Vehicle electrical control module system
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SB Fuse panel B
- T2 Double connector
- T2i Double connector, near the starter
- T4t 4-pin connector, near the starter
- T73b 73-pin connector
- 1 Ground strap, battery to body
- 12 Ground connection in engine compartment, left
- 508 Terminal 30 threaded connection (on E-box)
- 652 Transmission/engine ground connection
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B177 Connection 61 (in interior wiring harness)
- * Only for vehicles with A/C system
- *2 Omitted as a running change
- *3 Only for vehicles without an A/C system
- *4 Diameter depends on equipment
- *5 Only for vehicles with automatic transmission

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

162-121020415

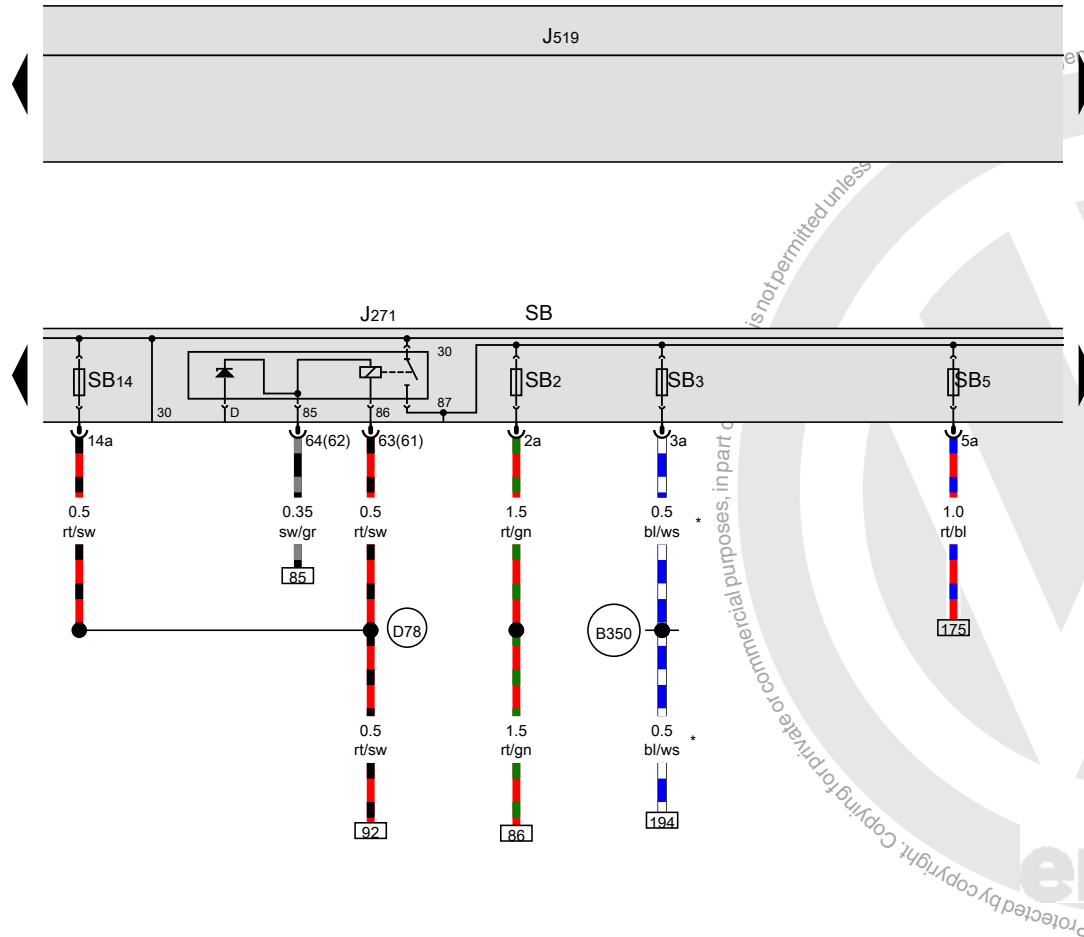
Motronic engine control module power supply relay, Vehicle electrical control module system, Fuse panel B, Fuse 14 (on fuse panel B)

- J271 Motronic engine control module power supply relay
- J519 Vehicle electrical control module system
- SB Fuse panel B
- SB2 Fuse 2 (on fuse panel B)
- SB3 Fuse 3 (on fuse panel B)
- SB5 Fuse 5 (on fuse panel B)
- SB14 Fuse 14 (on fuse panel B)

B350 Positive connection 1 (87a) (in main wiring harness)

D78 Positive connection 1 (30a) (in engine compartment wiring harness)

* The color of the wires depends on vehicle equipment



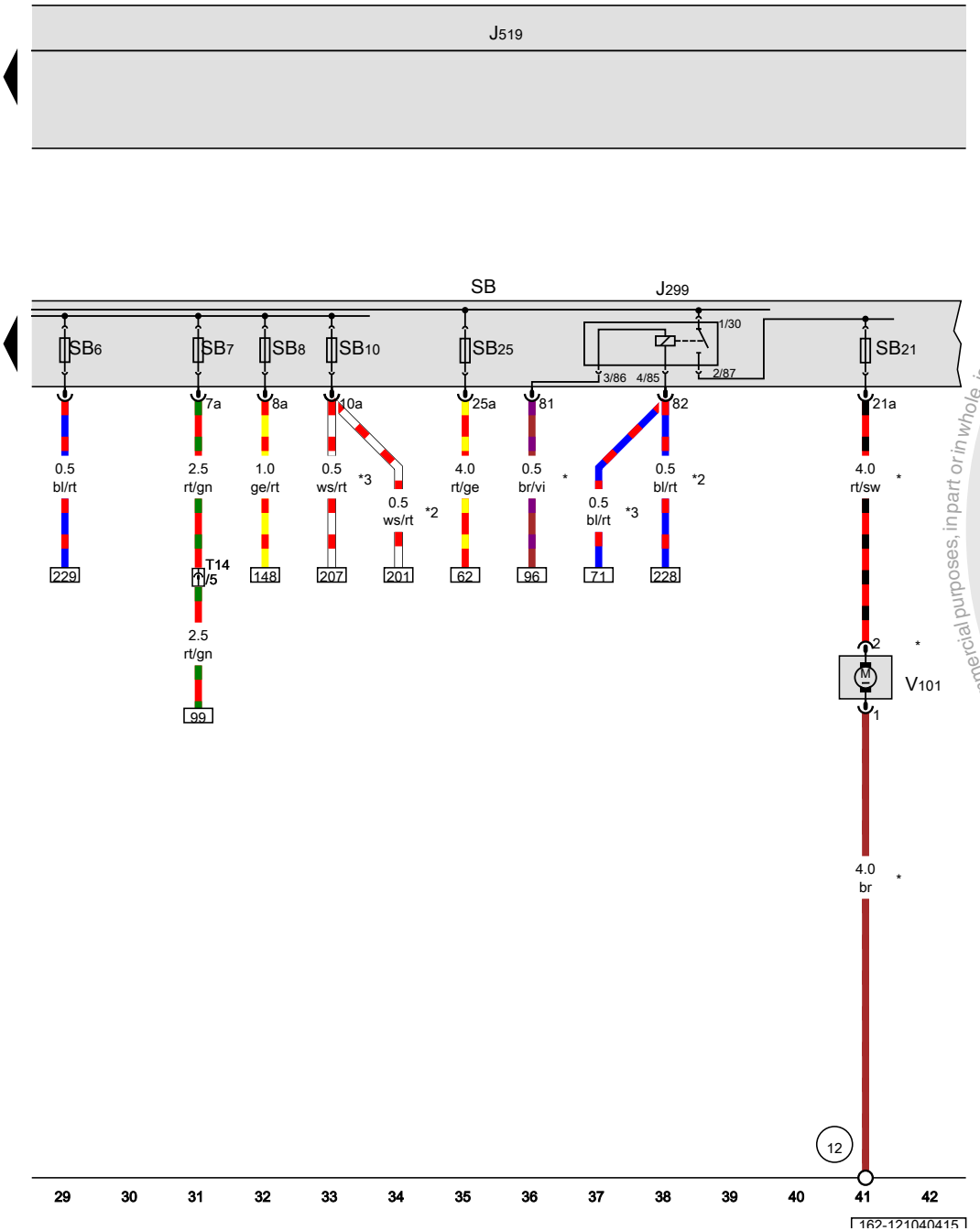
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- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Secondary air injection pump relay, Vehicle electrical control module system, Fuse panel B, Secondary air injection pump motor

- J299 Secondary air injection pump relay
- J519 Vehicle electrical control module system
- SB Fuse panel B
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- SB8 Fuse 8 (on fuse panel B)
- SB10 Fuse 10 (on fuse panel B)
- SB21 Fuse 21 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)
- T14 14-pin connector, near the battery
- V101 Secondary air injection pump motor

- 12 Ground connection in engine compartment, left

- * Depending on equipment
- *2 Running change
- *3 Omitted as a running change

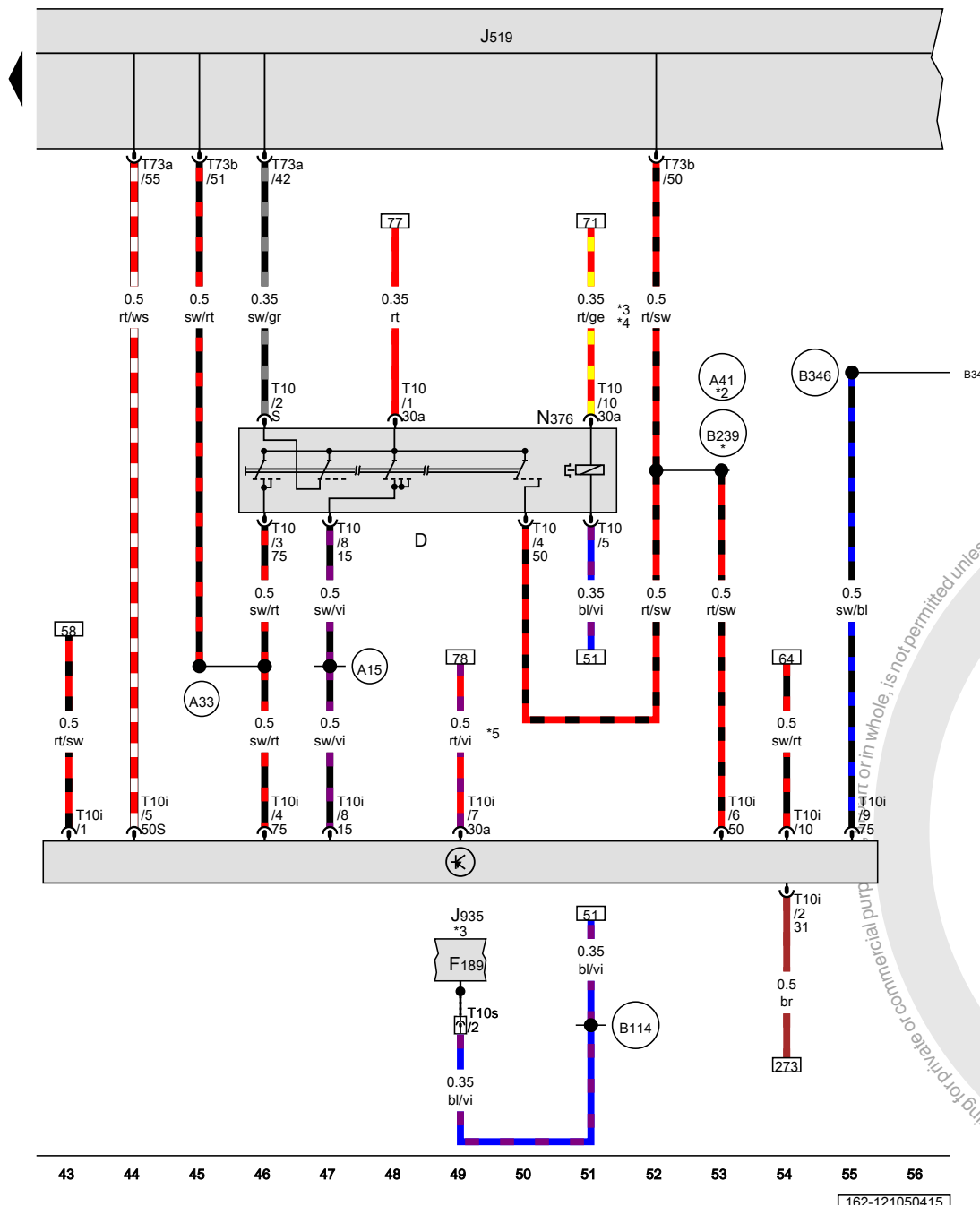


Ignition/starter switch, Vehicle electrical control module system, Converter box

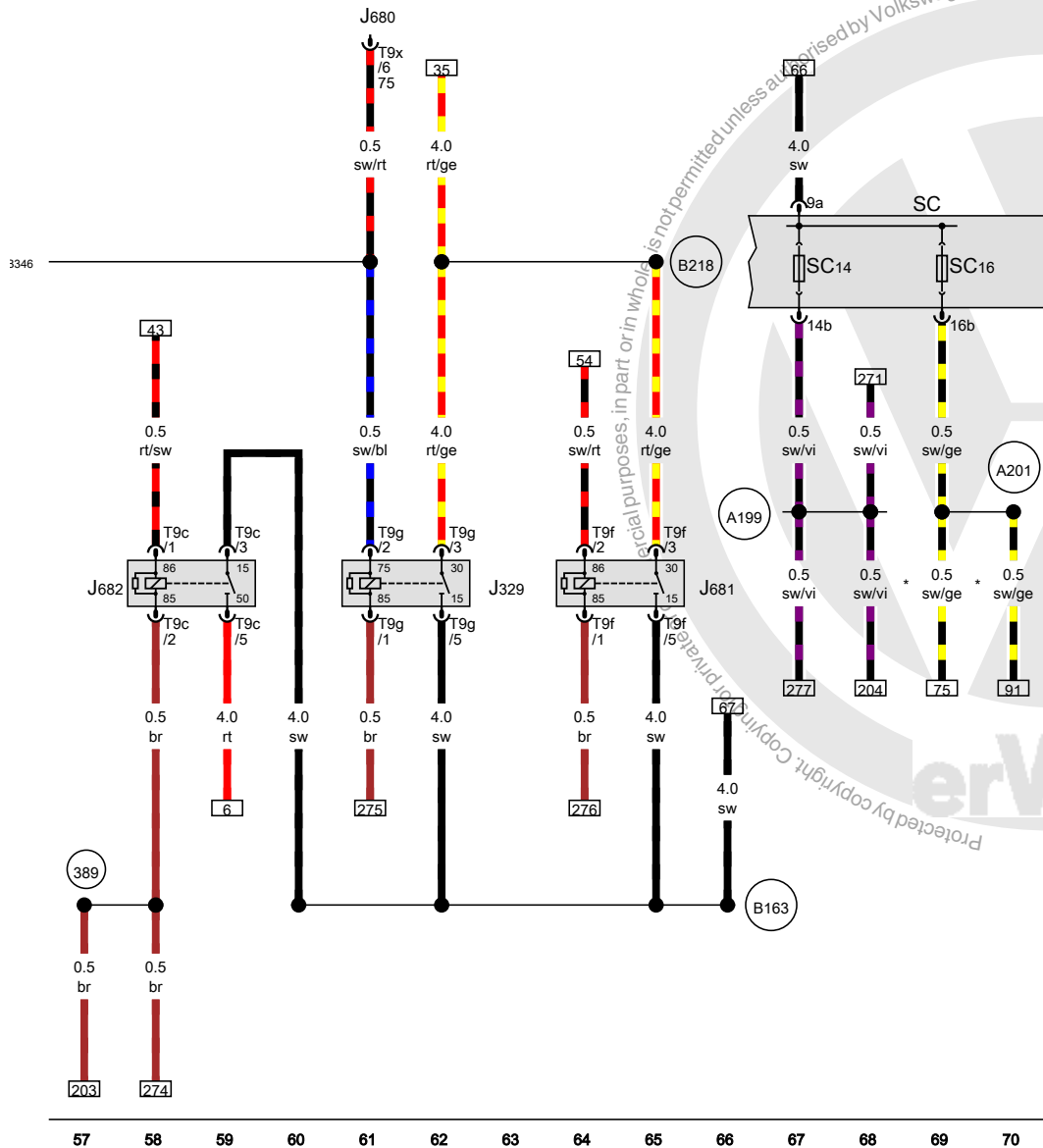
- D Ignition/starter switch
- F189 tiptronic switch
- J519 Vehicle electrical control module system
- J935 Converter box
- N376 Ignition switch key lock solenoid
- T10 10-pin connector
- T10i 10-pin connector
- T10s 10-pin connector
- T73a 73-pin connector
- T73b 73-pin connector

- A15 Plus connection (15) (in instrument cluster wiring harness)
- A33 Connection 75 (in instrument panel wiring harness)
- A41*2 Positive connection (50) (in instrument panel wiring harness)
- B114 Lock switch connection (in interior wiring harness)
- B239 Positive connection 1 (50) (in interior wiring harness)
- B346 Connection 75 (in main wiring harness)
- * Through May 2013
- *2 from June 2013
- *3 Only for vehicles with automatic transmission
- *4 Diameter depends on equipment
- *5 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- lv = lilac
- ge = yellow
- or = orange
- rs = pink



Terminal 15 power supply relay, Terminal 15 power supply relay 2, Terminal 50 power supply relay, Fuse panel C

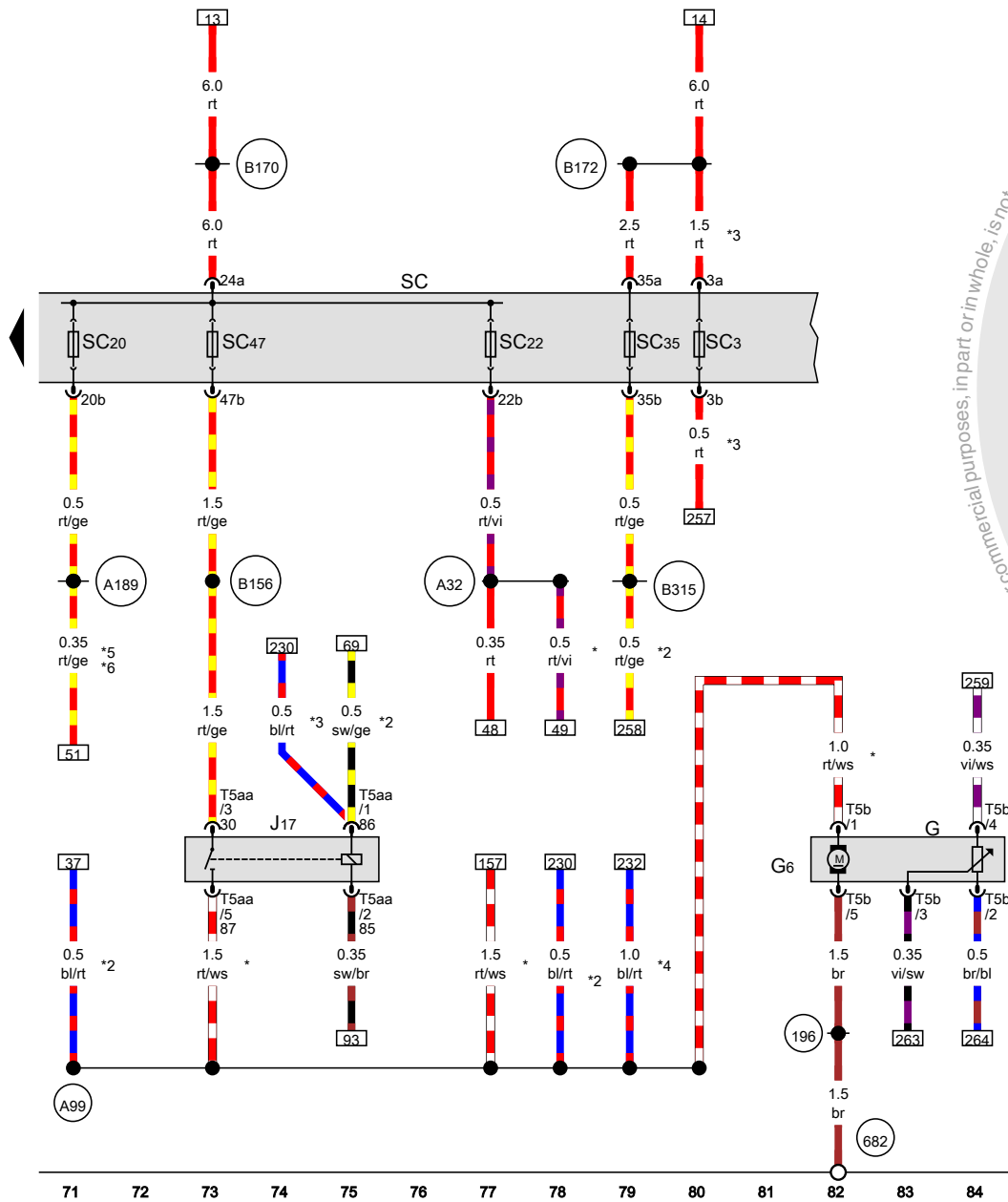


ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

- J329 Terminal 15 power supply relay
- J680 Terminal 75 power supply relay 1
- J681 Terminal 15 power supply relay 2
- J682 Terminal 50 power supply relay
- SC Fuse panel C
- SC14 Fuse 14 (on fuse panel C)
- SC16 Fuse 16 (on fuse panel C)
- T9c 9-pin connector
- T9f 9-pin connector
- T9g 9-pin connector
- T9x 9-pin connector

- 389 Ground connection 24 (in main wiring harness)
- A199 Positive connection 4 (15a) (in instrument panel wiring harness)
- A201 Positive connection 6 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B218 Positive connection 6 (30) (in interior wiring harness)
- B346 Connection 75 (in main wiring harness) 1
- * Omitted as a running change

**Fuel level sensor, Transfer fuel pump, Fuel pump relay,
Fuse panel C**



162-121070415

ws = white
sw = black
ro = red
rt = red
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gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

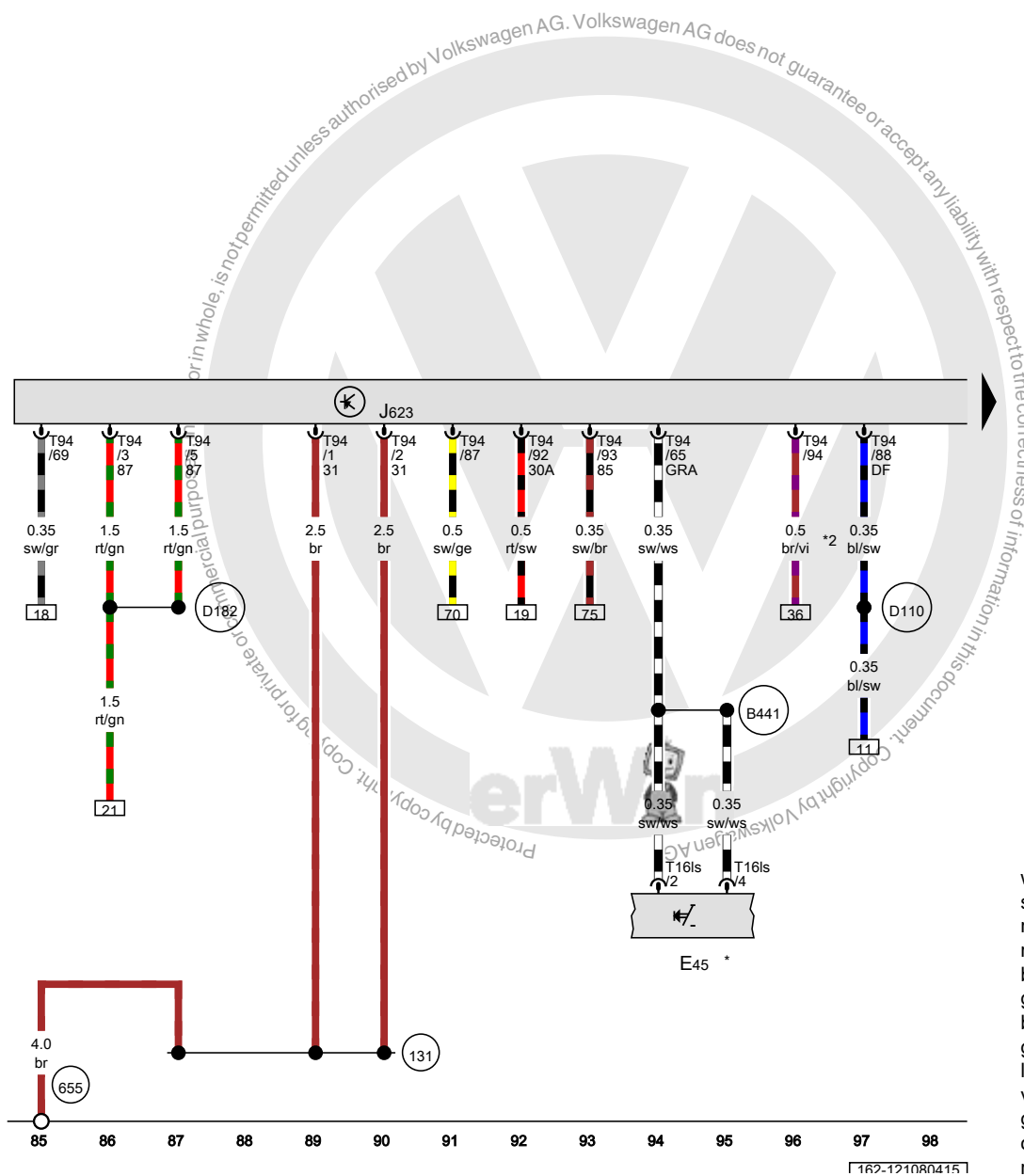
- G Fuel level sensor
- G6 Transfer fuel pump
- J17 Fuel pump relay
- SC Fuse panel C
- SC3 Fuse 3 (on fuse panel C)
- SC20 Fuse 20 (on fuse panel C)
- SC22 Fuse 22 (on fuse panel C)
- SC35 Fuse 35 (on fuse panel C)
- SC47 Fuse 47 (on fuse panel C)
- T5aa 5-pin connector
- T5b 5-pin connector
- 196 Ground connection 3 (in rear wiring harness)
- 682 Ground connection 2 in right rear side panel
- A32 Positive connection (30) (in instrument panel wiring harness)
- A99 Connection 87 (in instrument panel wiring harness) 1
- A189 Positive connection 5 (30a) (in instrument panel wiring harness)
- B156 Positive connection (30a) (in interior wiring harness)
- B170 Positive connection 2 (30) (in interior wiring harness)
- B172 Positive connection 4 (30) (in interior wiring harness)
- B315 Positive connection 1 (30a) (in main wiring harness)
- * The color of the wires depends on vehicle equipment
- *2 Omitted as a running change
- *3 Running change
- *4 Depending on equipment
- *5 Only for vehicles with automatic transmission
- *6 Diameter depends on equipment

Engine control module

E45 Cruise control switch
J623 Engine control module
T16ls 16-pin connector
T94 94-pin connector

- (131) Ground connection 2 (in engine compartment wiring harness)
- (655) Ground connection on left headlamp
- (B441) Cruise control connection (in main wiring harness)
- (D110) Connection 8 (in engine compartment wiring harness)
- (D182) Connection 3 (87a) (in engine compartment wiring harness)

* Only for vehicles with cruise control
*2 Depending on equipment



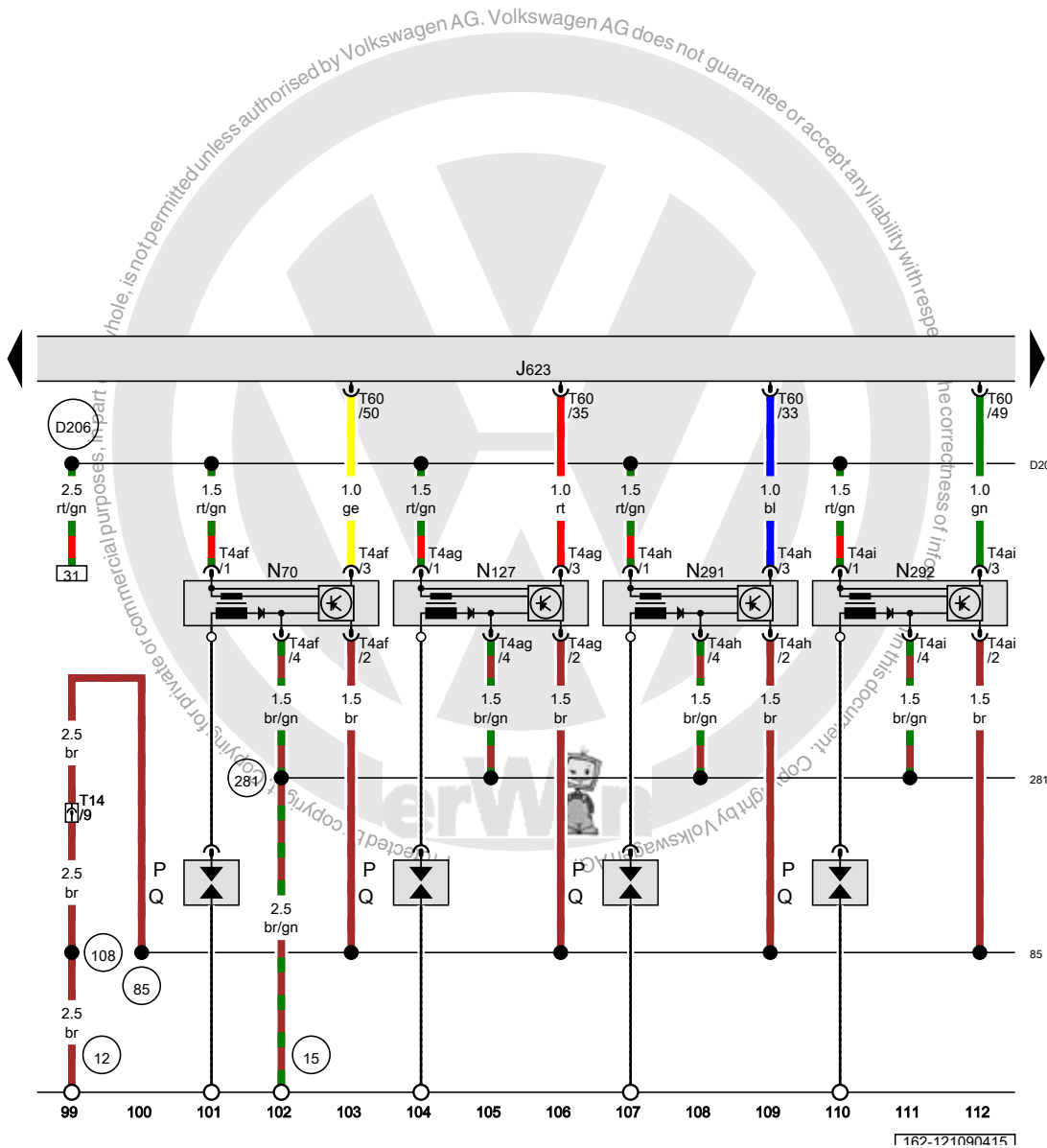
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sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plug connectors, Spark plugs

- J623 Engine control module
- N70 Ignition coil 1 with power output stage
- N127 Ignition coil 2 with power output stage
- N291 Ignition coil 3 with power output stage
- N292 Ignition coil 4 with power output stage
- P Spark plug connectors
- Q Spark plugs
- T4af 4-pin connector
- T4ag 4-pin connector
- T4ah 4-pin connector
- T4ai 4-pin connector
- T14 14-pin connector, near the battery
- T60 60-pin connector

- 12 Ground connection in engine compartment, left
- 15 Ground connection on cylinder head
- 85 Ground connection 1 (in engine compartment wiring harness)
- 108 Ground connection 2 (in left front wiring harness)
- 281 Ground connection 1 (in engine pre-wiring harness)
- D206 Connection 87a (in engine pre-wiring harness) 4
- * USA only

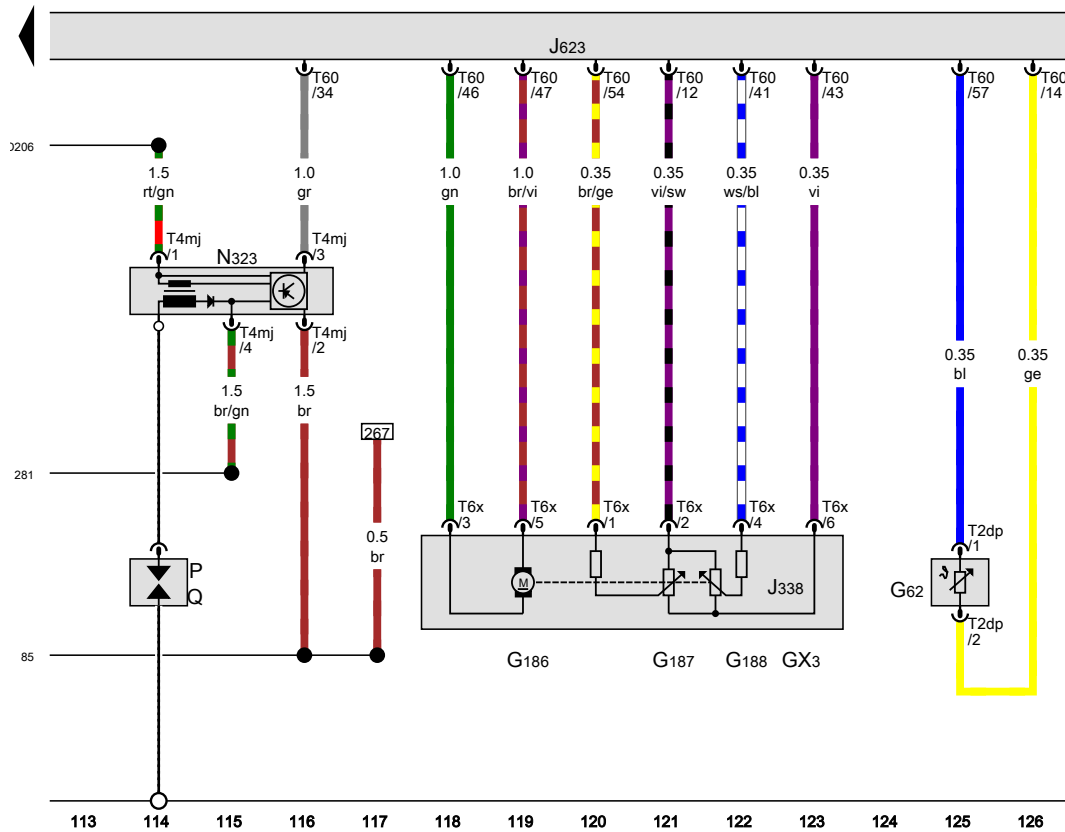
- ws = white
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- bl = blue
- gr = grey
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- rs = pink



Throttle valve control module, Engine coolant temperature sensor, EPC throttle drive, Engine control module, Ignition coil 5 with power output stage, Spark plug connectors

- GX3 Throttle valve control module
- G62 Engine coolant temperature sensor
- G186 EPC throttle drive
- G187 EPC throttle drive angle sensor 1
- G188 EPC throttle drive angle sensor 2
- J338 Throttle valve control module
- J623 Engine control module
- N323 Ignition coil 5 with power output stage
- P Spark plug connectors
- Q Spark plugs
- T2dp Double connector
- T4mj 4-pin connector
- T6x 6-pin connector
- T60 60-pin connector

- 85 Ground connection 1 (in engine compartment wiring harness)
- 281 Ground connection 1 (in engine pre-wiring harness)
- D206 Connection 87a (in engine pre-wiring harness) 4



- ws = white
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- ro = red
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Intake manifold sensor, Intake air temperature sensor, Knock sensor 1, Knock sensor 2, Engine control module

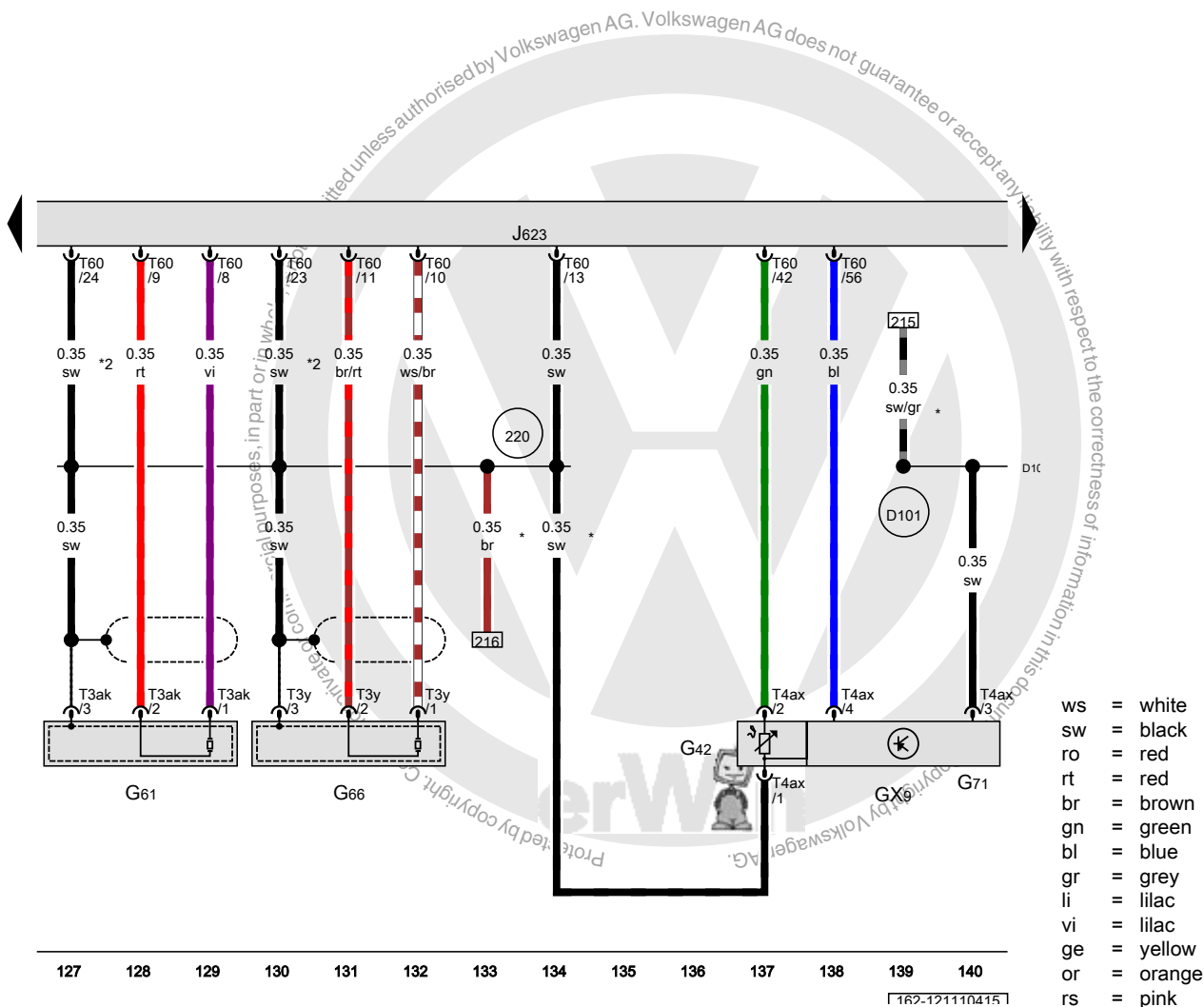
- GX9 Intake manifold sensor
- G42 Intake air temperature sensor
- G61 Knock sensor 1
- G66 Knock sensor 2
- G71 Manifold absolute pressure sensor
- J623 Engine control module
- T3ak 3-pin connector
- T3y 3-pin connector
- T4ax 4-pin connector
- T60 60-pin connector

220 Sensor ground connection (in engine wiring harness)

D101 Connection 1 (in engine compartment wiring harness)

* Depending on equipment

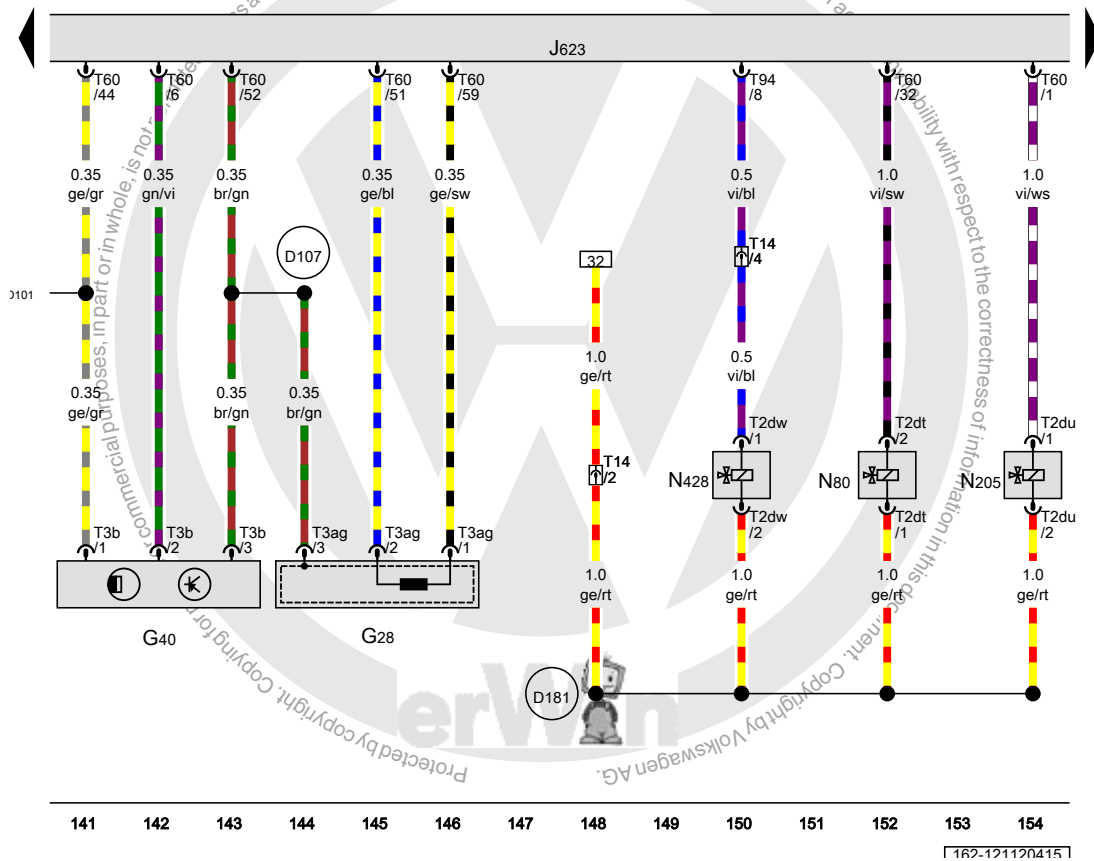
*2 Wagon



Engine speed sensor, Camshaft position sensor, Engine control module, EVAP canister purge regulator valve 1, Camshaft adjustment valve 1

- G28 Engine speed sensor
- G40 Camshaft position sensor
- J623 Engine control module
- N80 EVAP canister purge regulator valve 1
- N205 Camshaft adjustment valve 1
- N428 Oil pressure regulation valve
- T2dt Double connector
- T2du Double connector
- T2dw Double connector
- T3ag 3-pin connector
- T3b 3-pin connector
- T14 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

- D101 Connection 1 (in engine compartment wiring harness)
- D107 Connection 5 (in engine compartment wiring harness)
- D181 Connection 2 (87a) (in engine compartment wiring harness)



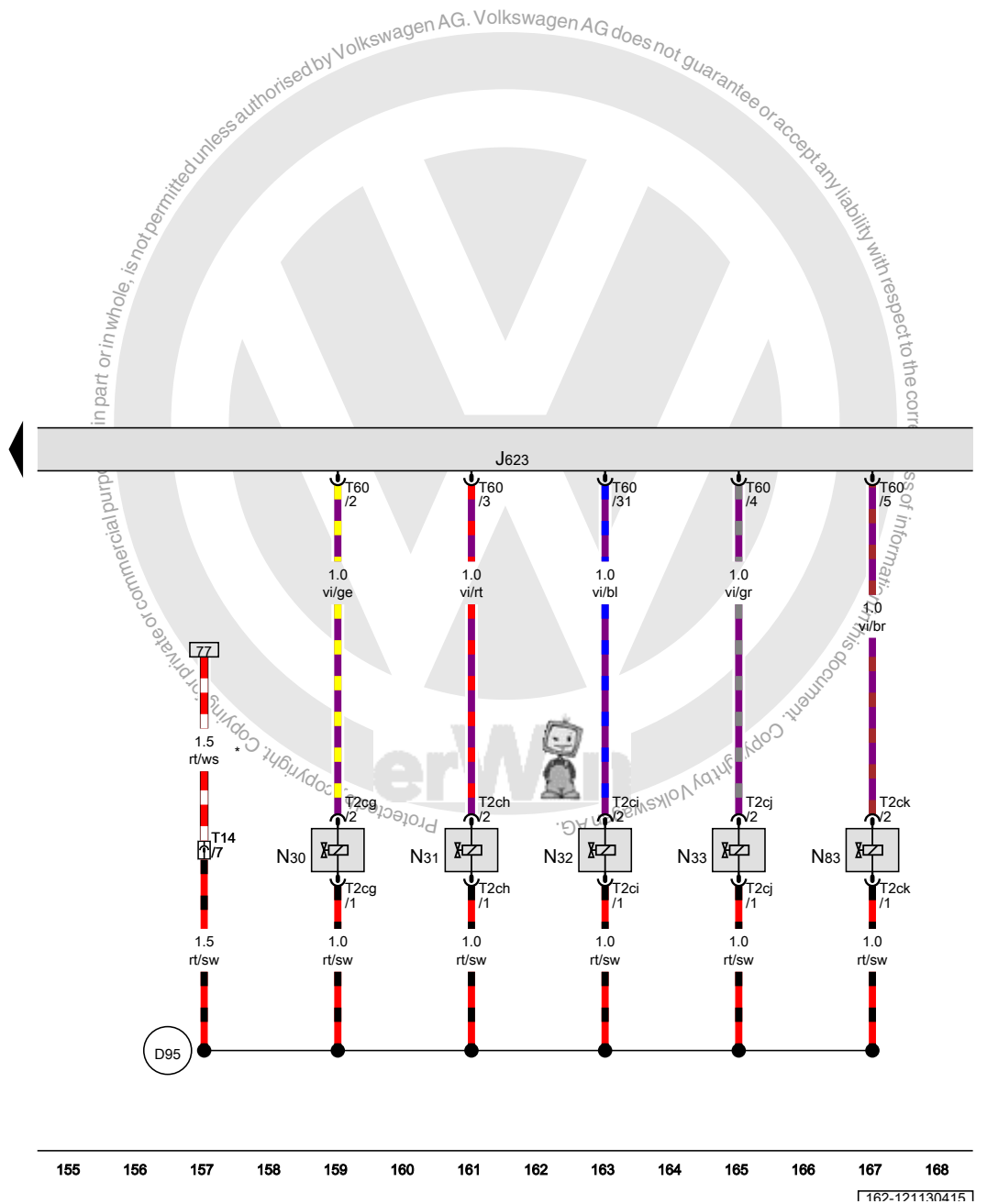
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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector, Cylinder 5 fuel injector

- J623 Engine control module
- N30 Cylinder 1 fuel injector
- N31 Cylinder 2 fuel injector
- N32 Cylinder 3 fuel injector
- N33 Cylinder 4 fuel injector
- N83 Cylinder 5 fuel injector
- T2cg Double connector
- T2ch Double connector
- T2ci Double connector
- T2cj Double connector
- T2ck Double connector
- T14 14-pin connector
- T60 60-pin connector

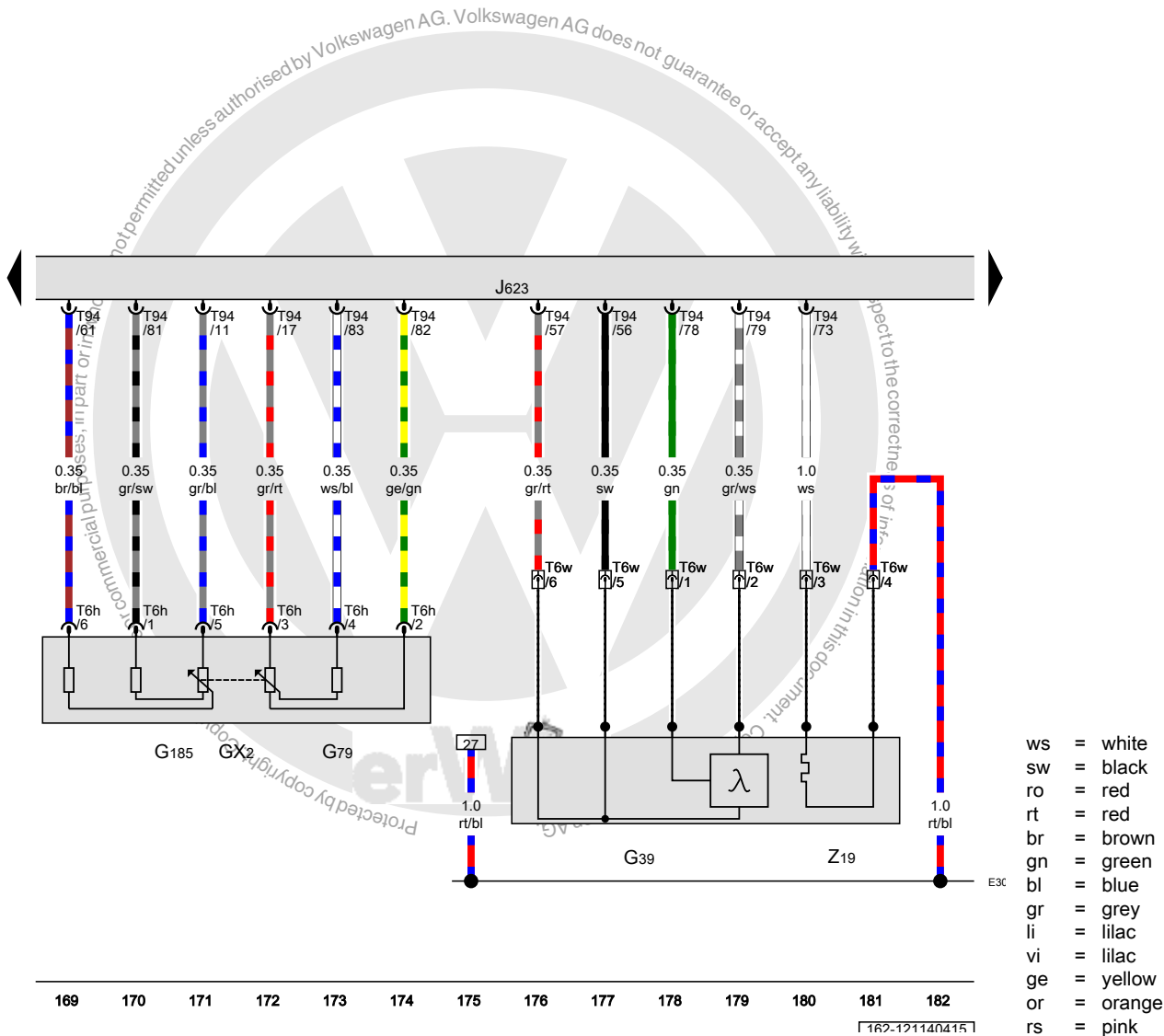
D95 Injector connection (in engine compartment wiring harness)

* The color of the wires depends on vehicle equipment



Accelerator pedal module, Heated oxygen sensor, Accelerator pedal position sensor 2, Engine control module, Oxygen sensor heater

- GX2 Accelerator pedal module
- G39 Heated oxygen sensor
- G79 Accelerator pedal position sensor 2
- G185 Accelerator pedal position sensor 2
- J623 Engine control module
- T6h 6-pin connector
- T6w 6-pin connector
- T94 94-pin connector
- Z19 Oxygen sensor heater
- E30 Connection 87a (in engine wiring harness)

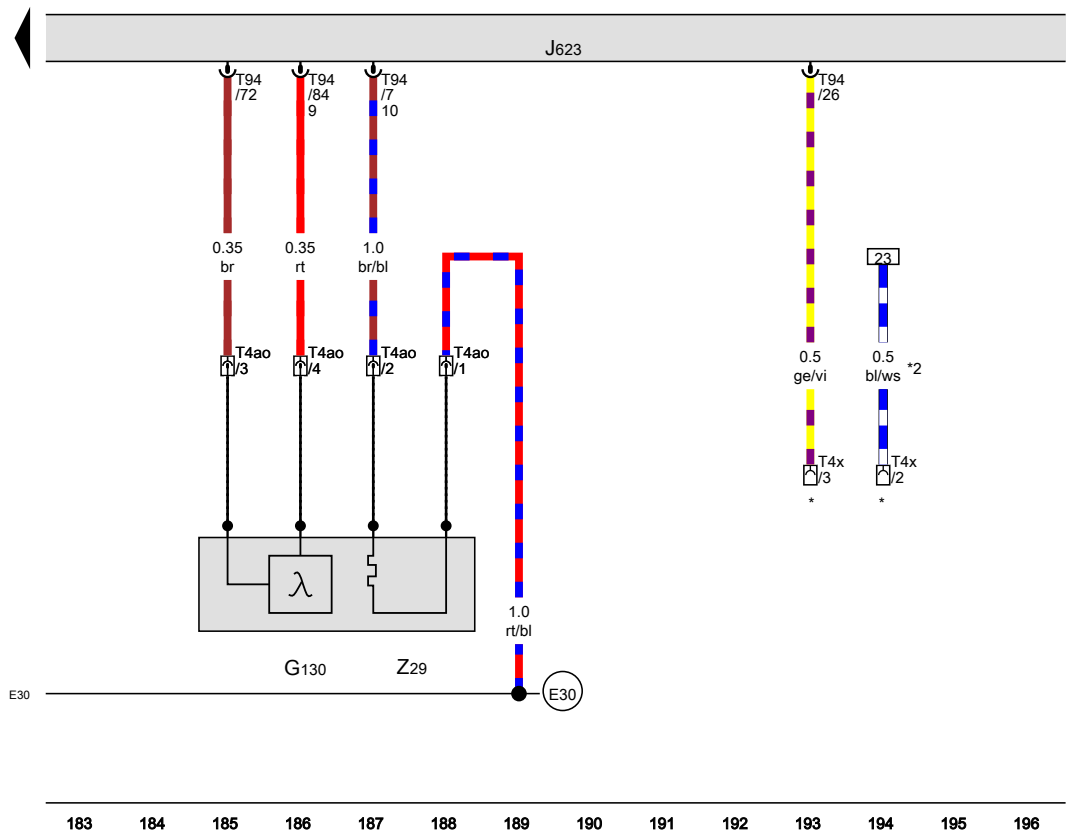


Oxygen sensor after three way catalytic converter, Engine control module, Heater for oxygen sensor 1 after catalytic converter

- G130 Oxygen sensor after three way catalytic converter
- J623 Engine control module
- T4ao 4-pin connector
- T4x 4-pin connector
- T94 94-pin connector
- Z29 Heater for oxygen sensor 1 after catalytic converter

E30 Connection 87a (in engine wiring harness)

- * Coolant fan connection
- *2 The color of the wires depends on vehicle equipment



ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

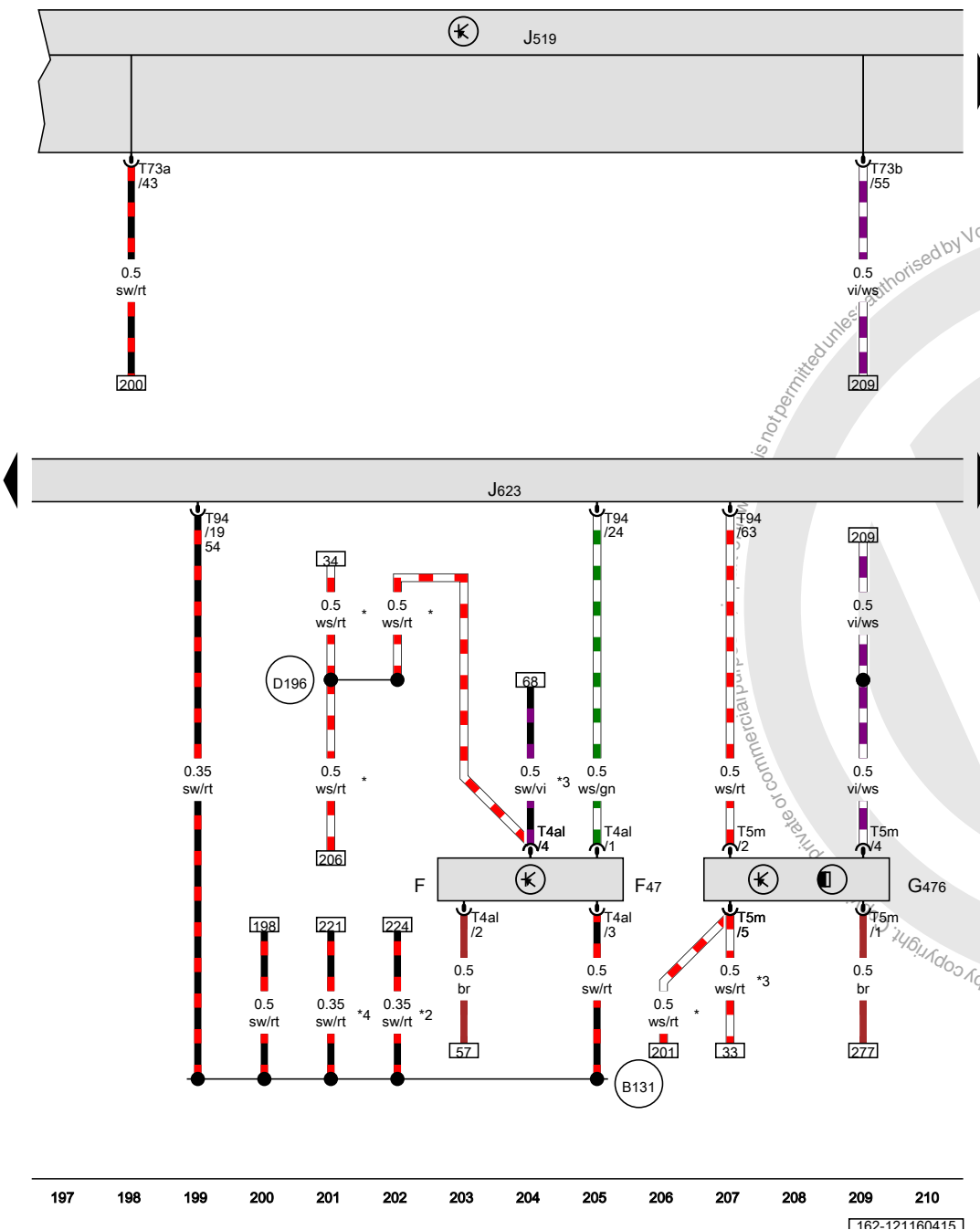
Brake lamp switch, Brake pedal switch, Clutch position sensor, Vehicle electrical control module system, Engine control module

- F Brake lamp switch
- F47 Brake pedal switch
- G476 Clutch position sensor
- J519 Vehicle electrical control module system
- J623 Engine control module
- T4al 4-pin connector
- T5m 5-pin connector
- T73a 73-pin connector
- T73b 73-pin connector
- T94 94-pin connector

B131 Connection 54 (in interior wiring harness)

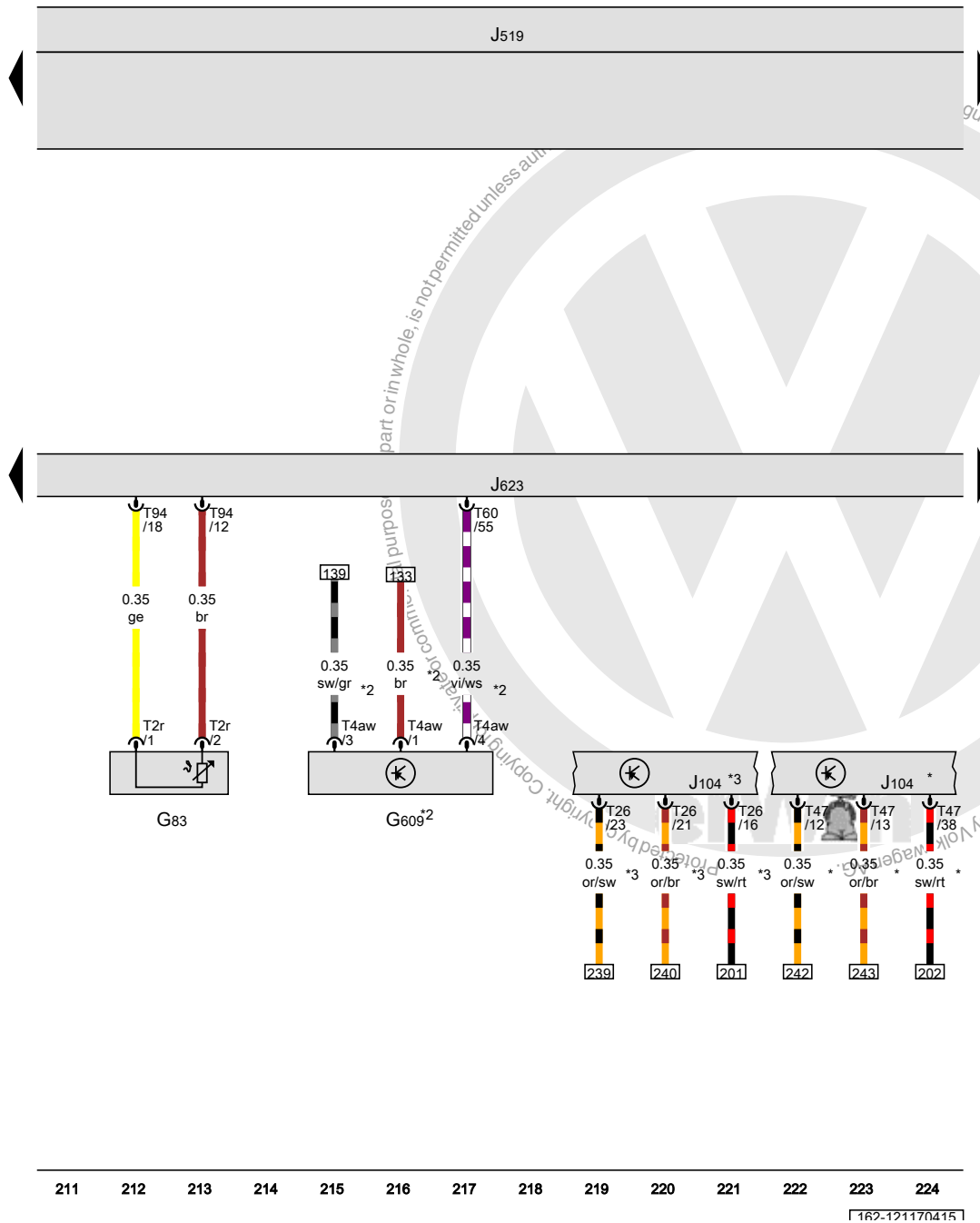
D196 Connection 87a (in engine pre-wiring harness) 2

- * Running change
- *2 Only for vehicles with ABS and ESP
- *3 Omitted as a running change
- *4 Only for vehicles with ABS without ESP



Engine coolant temperature sensor on radiator outlet,
Secondary air injection sensor 1, Vehicle electrical control
module system, Engine control module

- G83 Engine coolant temperature sensor on radiator outlet
- G609 Secondary air injection sensor 1
- J104 ABS control module
- J519 Vehicle electrical control module system
- J623 Engine control module
- T2r Double connector
- T4aw 4-pin connector
- T26 26-pin connector
- T47 47-pin connector
- T60 60-pin connector
- T94 94-pin connector
- * Only for vehicles with ABS and ESP
- *2 Depending on equipment
- *3 Only for vehicles with ABS without ESP



Reduced oil pressure switch, Vehicle electrical control module system, Engine control module, Secondary air injection solenoid valve, Leak detection pump

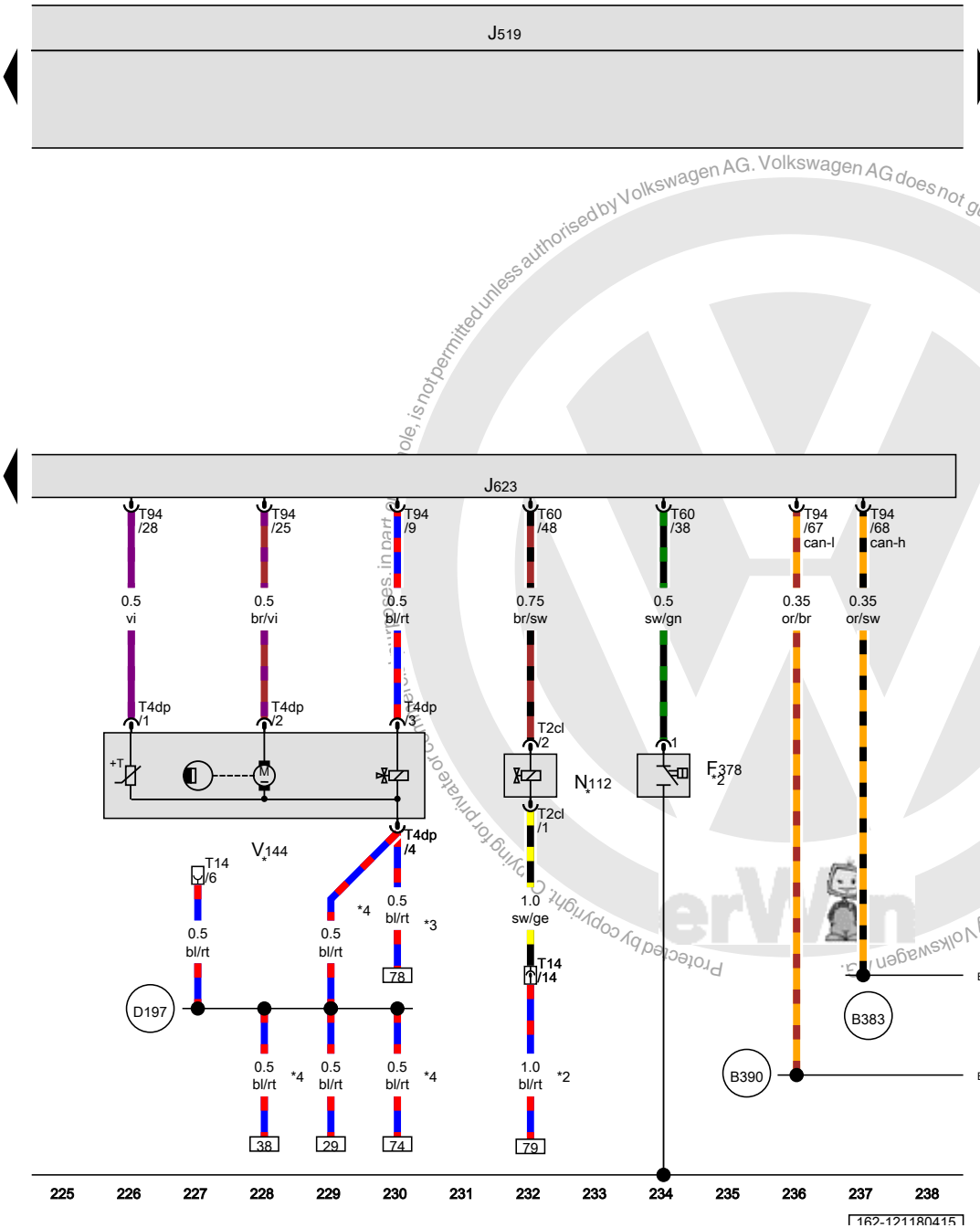
- F378 Reduced oil pressure switch
- J519 Vehicle electrical control module system
- J623 Engine control module
- N112 Secondary air injection solenoid valve
- T2cl Double connector
- T4dp 4-pin connector
- T14 14-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V144 Leak detection pump

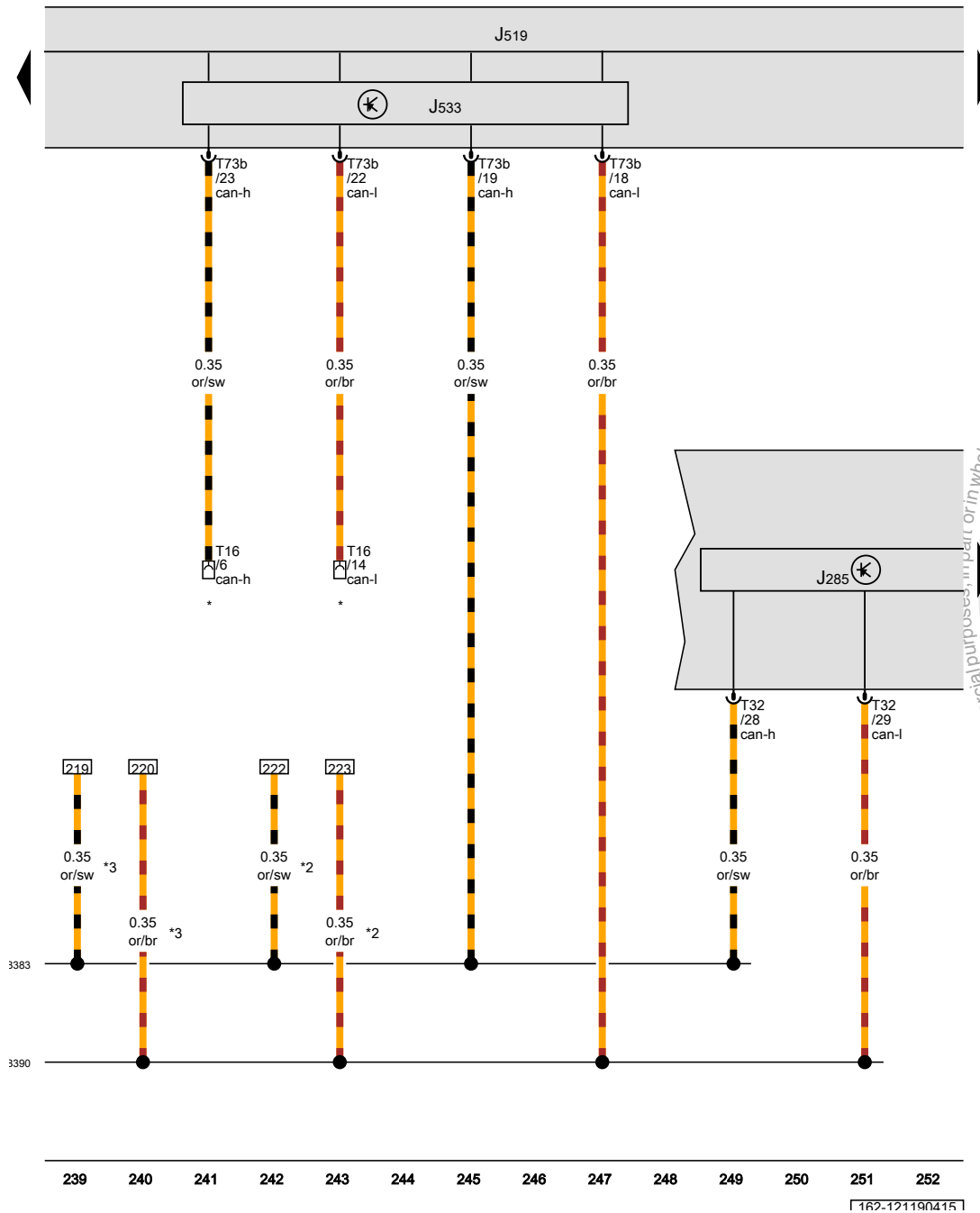
B383 Powertrain CAN bus high connection 1 (in main wiring harness)

B390 Powertrain CAN bus low connection 1 (in main wiring harness)

D197 Connection 5 (87a) (in engine compartment wiring harness)

- * If available
- *2 Depending on equipment
- *3 Omitted as a running change
- *4 Running change





Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

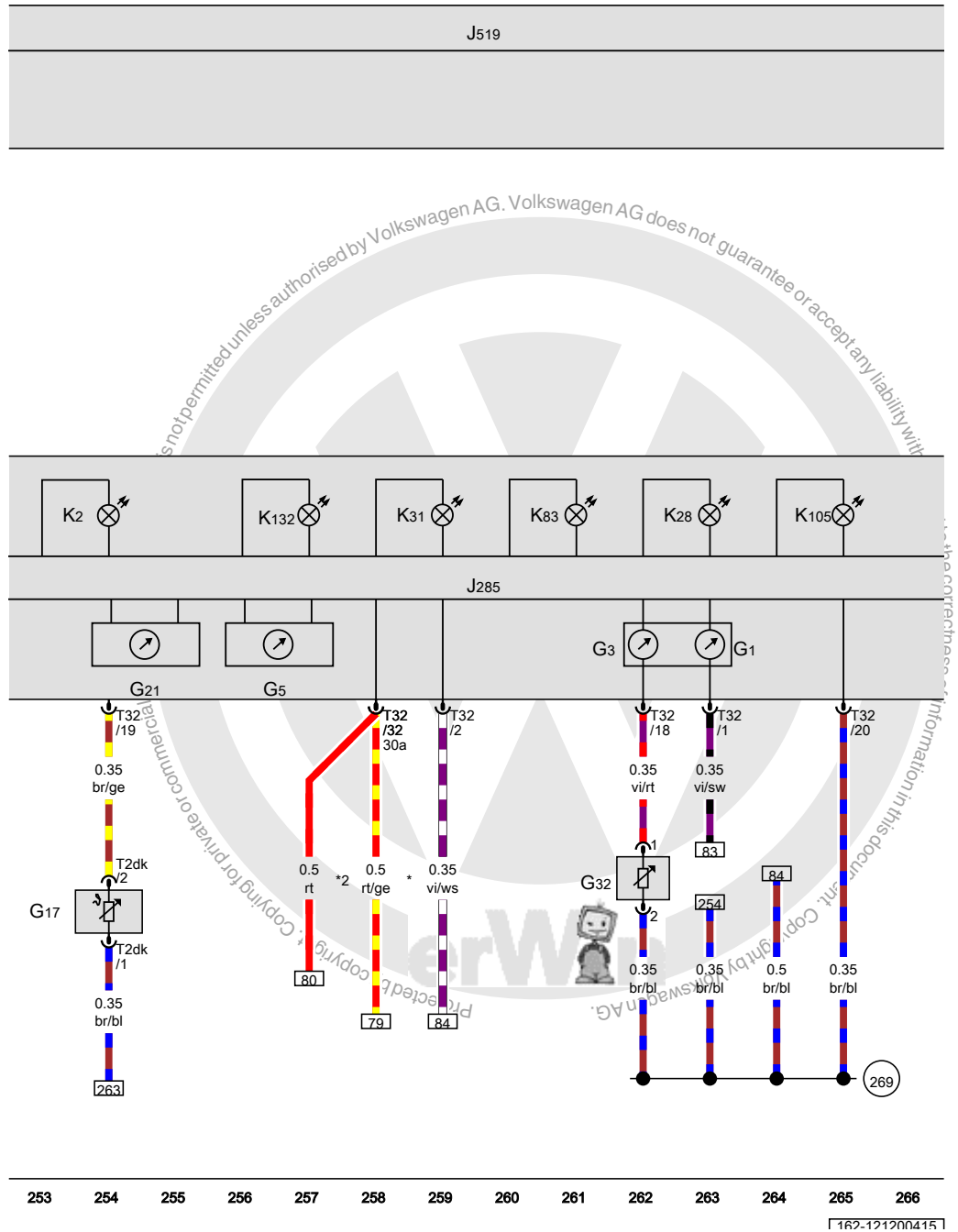
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- T16 16-pin connector
- T32 32-pin connector
- T73b 73-pin connector
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- * Diagnostic connector
- *2 Only for vehicles with ABS and ESP
- *3 Only for vehicles with ABS without ESP

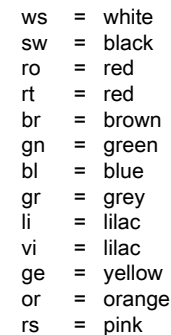
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 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Fuel gauge, Engine coolant temperature gauge, Tachometer, Speedometer, Instrument cluster control module, Vehicle electrical control module system, Generator indicator lamp, Engine coolant level/temperature indicator lamp, Cruise control indicator lamp, Low fuel level indicator lamp, Electronic power control malfunction indicator lamp

- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G5 Tachometer
- G17 Outside air temperature sensor
- G21 Speedometer
- G32 Engine coolant level sensor
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- K2 Generator indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K31 Cruise control indicator lamp
- K83 Malfunction indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- T2dk Double connector
- T32 32-pin connector
- 269 Sensor ground connection 1 (in instrument panel wiring harness)
- * Omitted as a running change
- *2 Running change

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 sw = black
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 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink





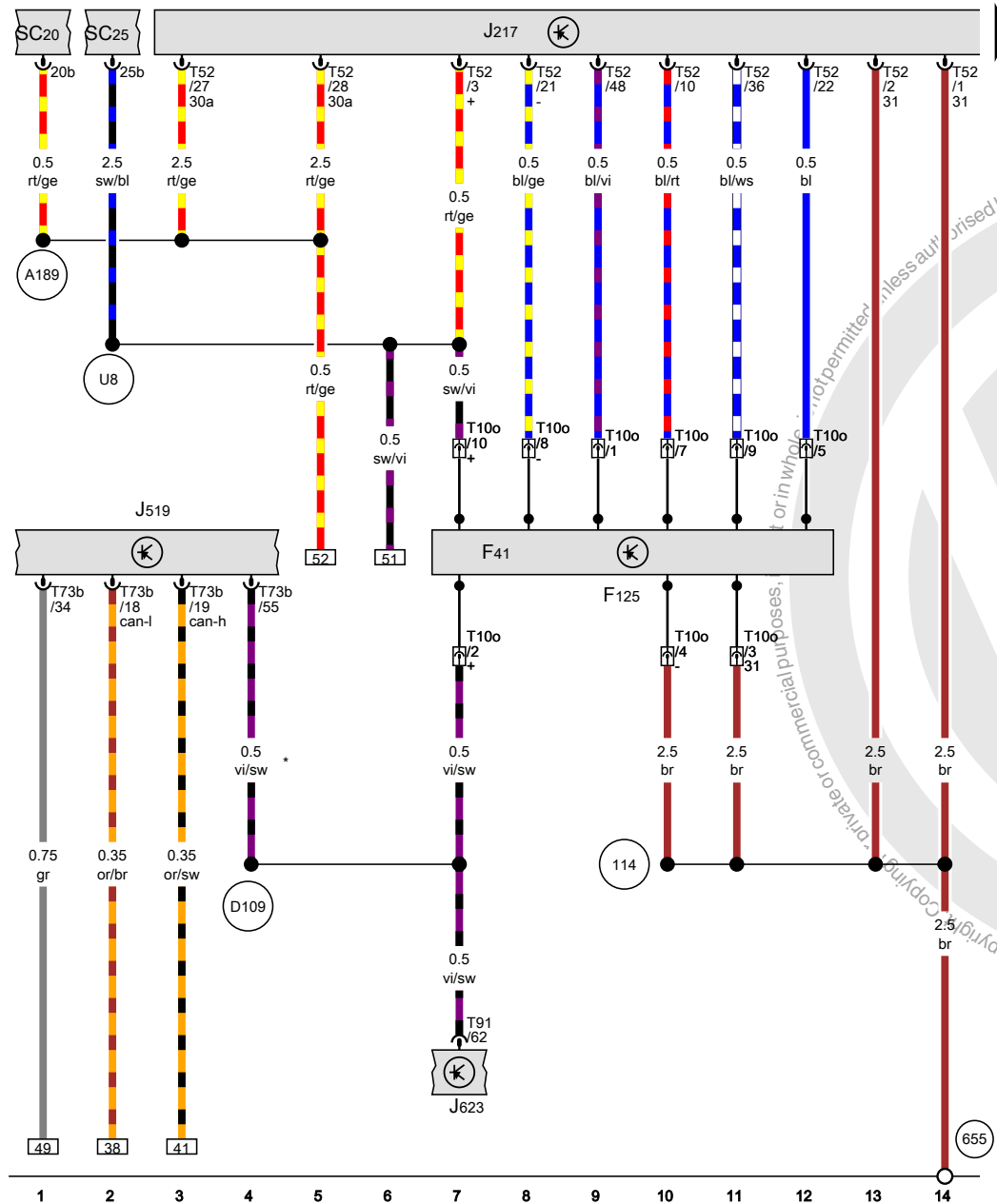
| | |
|------|--|
| F1 | Oil pressure switch |
| G266 | Oil level thermal sensor |
| H3 | Warning buzzer and tone |
| J285 | Instrument cluster control module |
| J519 | Vehicle electrical control module system |
| K3 | Oil pressure indicator lamp |
| T6z | 6-pin connector, near the left headlamp |
| T14 | 14-pin connector |
| T32 | 32-pin connector |
| T73a | 73-pin connector |
| T73b | 73-pin connector |
| 132 | Ground connection 3 (in engine compartment wiring harness) |
| 367 | Ground connection 2 (in main wiring harness) |
| 376 | Ground connection 11 (in main wiring harness) |
| 605 | Ground connection on upper steering column |
| 655 | Ground connection on left headlamp |
| * | Only for vehicles with flexible service interval reminder |

Automatic Transmission 6-Speed 09G , CPKA,CPRA,(0ER)

From July 2013

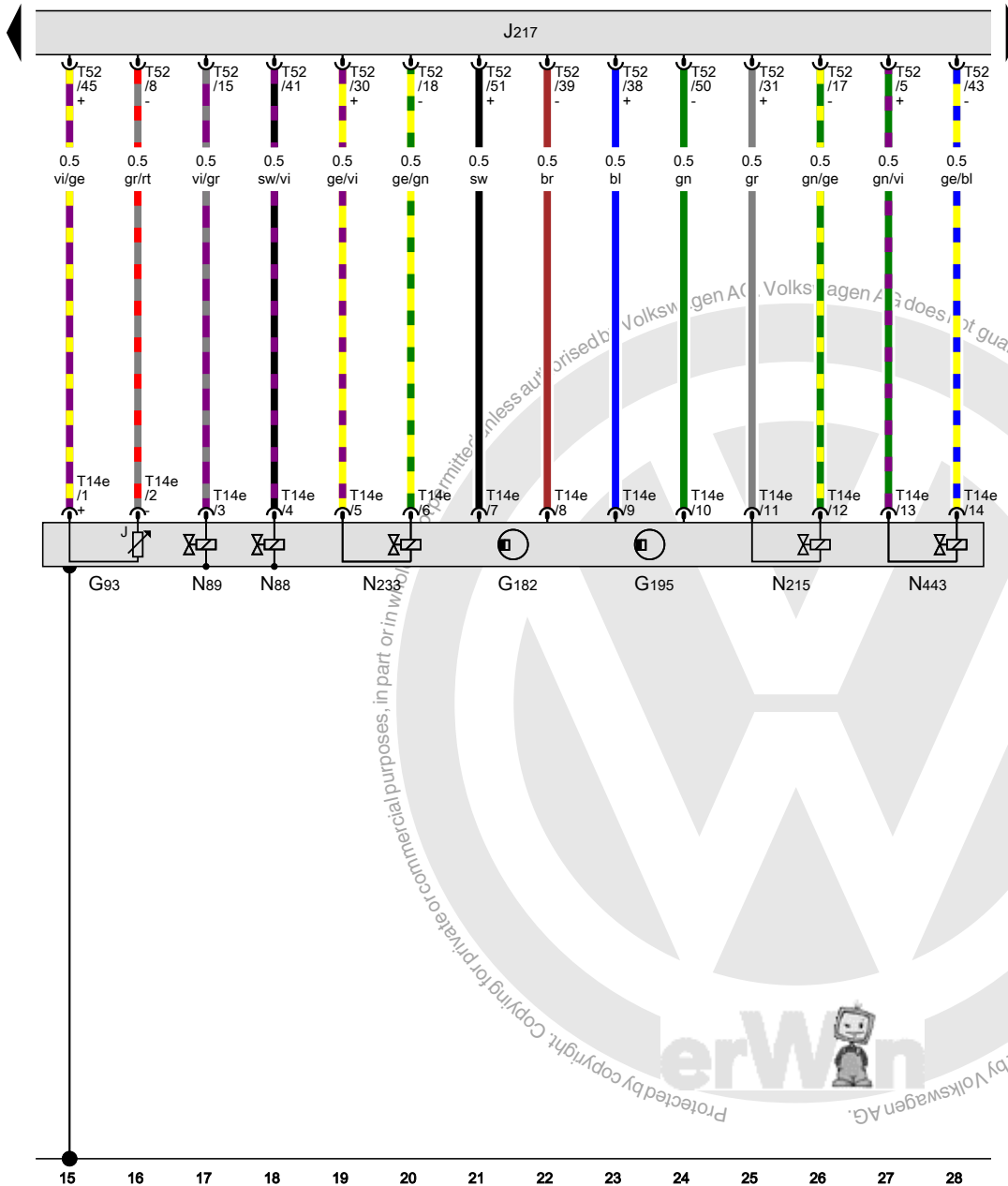


Back-Up Switch, Multifunction Transmission Range Switch, Transmission Control Module



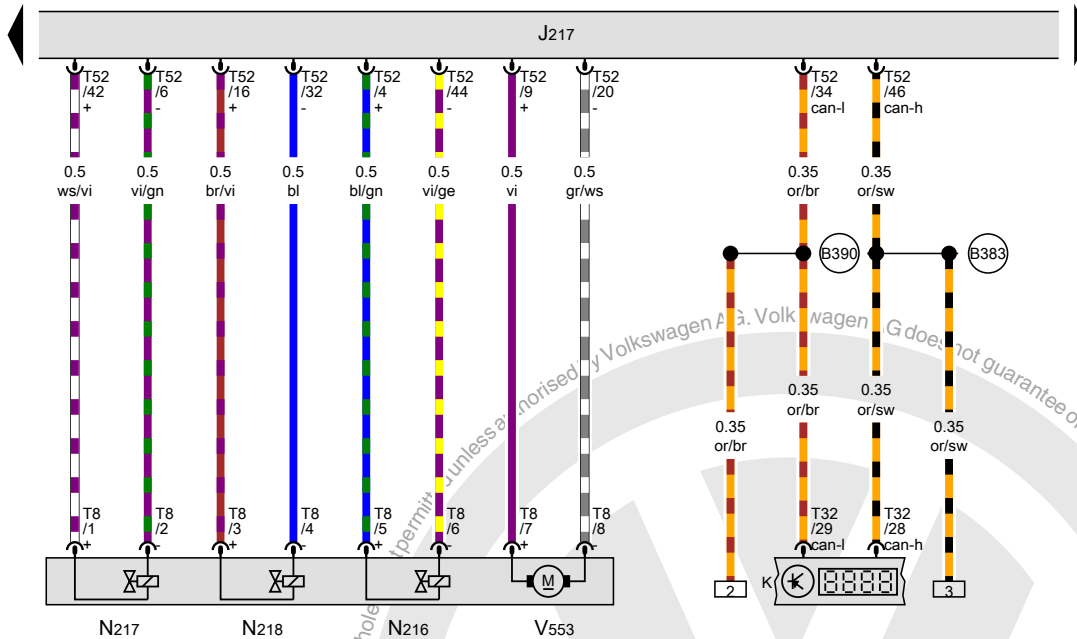
- F41 Back-Up Switch
- F125 Multifunction Transmission Range Switch
- J217 Transmission Control Module
- J519 Vehicle Electrical System Control Module
- J623 Engine/Motor Control Module
- SC20 Fuse 20 (On Fuse Panel C)
- SC25 Fuse 25 (On Fuse Panel C)
- T10o 10-Pin Connector
- T52 52-Pin Connector
- T73b 73-Pin Connector
- T91 91-Pin Connector
- 114 Ground Connection (in Automatic Transmission Wiring Harness)
- 655 Ground Connection on Left Headlamp
- A189 Positive Connection 5 (30a) (in Instrument Panel Wiring Harness)
- D109 Connection 7 (in Engine/Motor Compartment Wiring Harness)
- U8 Positive Connection (15a) (in Automatic Transmission Wiring Harness)
- * Depending on Equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Transmission Fluid Temperature Sensor, Transmission Input Speed Sensor, Transmission Output Speed Sensor, Transmission Control Module, Solenoid Valve 1, Solenoid Valve 2, Automatic Transmission Pressure Regulating Valve 1, Automatic Transmission Pressure Regulating Valve 5, Automatic Transmission Pressure Regulating Valve 7

- G93 Transmission Fluid Temperature Sensor
- G182 Transmission Input Speed Sensor
- G195 Transmission Output Speed Sensor
- J217 Transmission Control Module
- N88 Solenoid Valve 1
- N89 Solenoid Valve 2
- N215 Automatic Transmission Pressure Regulating Valve 1
- N233 Automatic Transmission Pressure Regulating Valve 5
- N443 Automatic Transmission Pressure Regulating Valve 7
- T14e 14-Pin Connector
- T52 52-Pin Connector

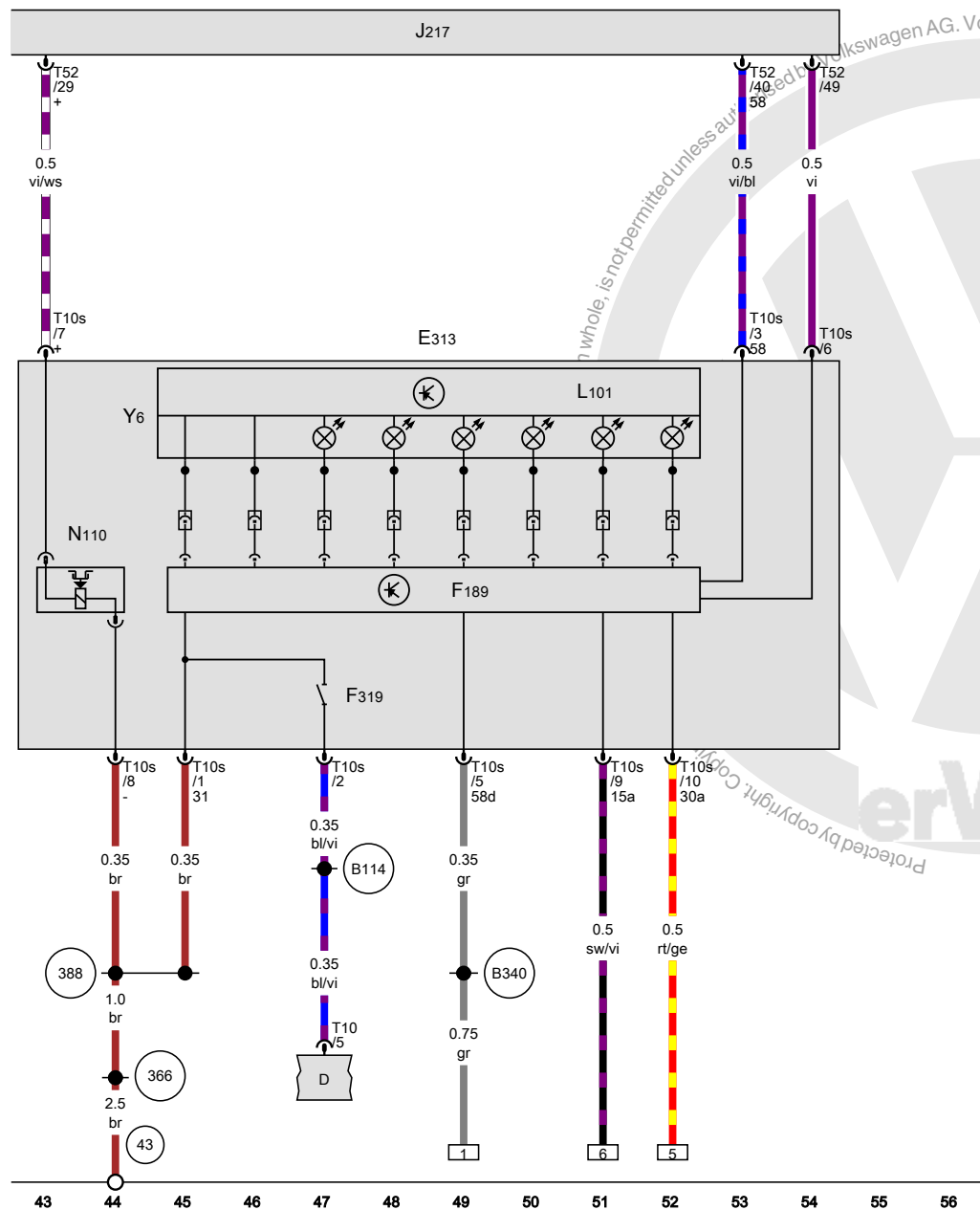


**Transmission Control Module, Instrument Cluster,
Automatic Transmission Pressure Regulating Valve 2,
Automatic Transmission Pressure Regulating Valve 3,
Automatic Transmission Pressure Regulating Valve 4,
Transmission Electric Pump 2**

- J217 Transmission Control Module
- K Instrument Cluster
- N216 Automatic Transmission Pressure Regulating Valve 2
- N217 Automatic Transmission Pressure Regulating Valve 3
- N218 Automatic Transmission Pressure Regulating Valve 4
- T8 8-Pin Connector
- T32 32-Pin Connector
- T52 52-Pin Connector
- V553 Transmission Electric Pump 2
- B383 Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
- B390 Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

Selector Lever, Tiptronic Switch, Selector Lever Park Position Lock Switch, Transmission Control Module, Selector Lever Scale Illumination Bulb, Shift Lock Solenoid, Transmission Range Display



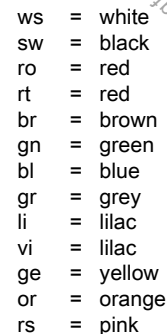
- D Ignition/Starter Switch
- E313 Selector Lever
- F189 Tiptronic Switch
- F319 Selector Lever Park Position Lock Switch
- J217 Transmission Control Module
- L101 Selector Lever Scale Illumination Bulb
- N110 Shift Lock Solenoid
- T10 10-Pin Connector
- T10s 10-Pin Connector
- T10v 10-Pin Connector
- T52 52-Pin Connector
- Y6 Transmission Range Display
- 43 Ground Connection on A-Pillar, Lower Right
- 366 Ground Connection 1 (in Main Wiring Harness)
- 388 Ground Connection 23 (in Main Wiring Harness)
- B114 Lock Switch Connection (in Interior Wiring Harness)
- B340 Connection 58d (in Main Wiring Harness) 1

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Comfort system, High (AW1) , (AW1)

from July 2012



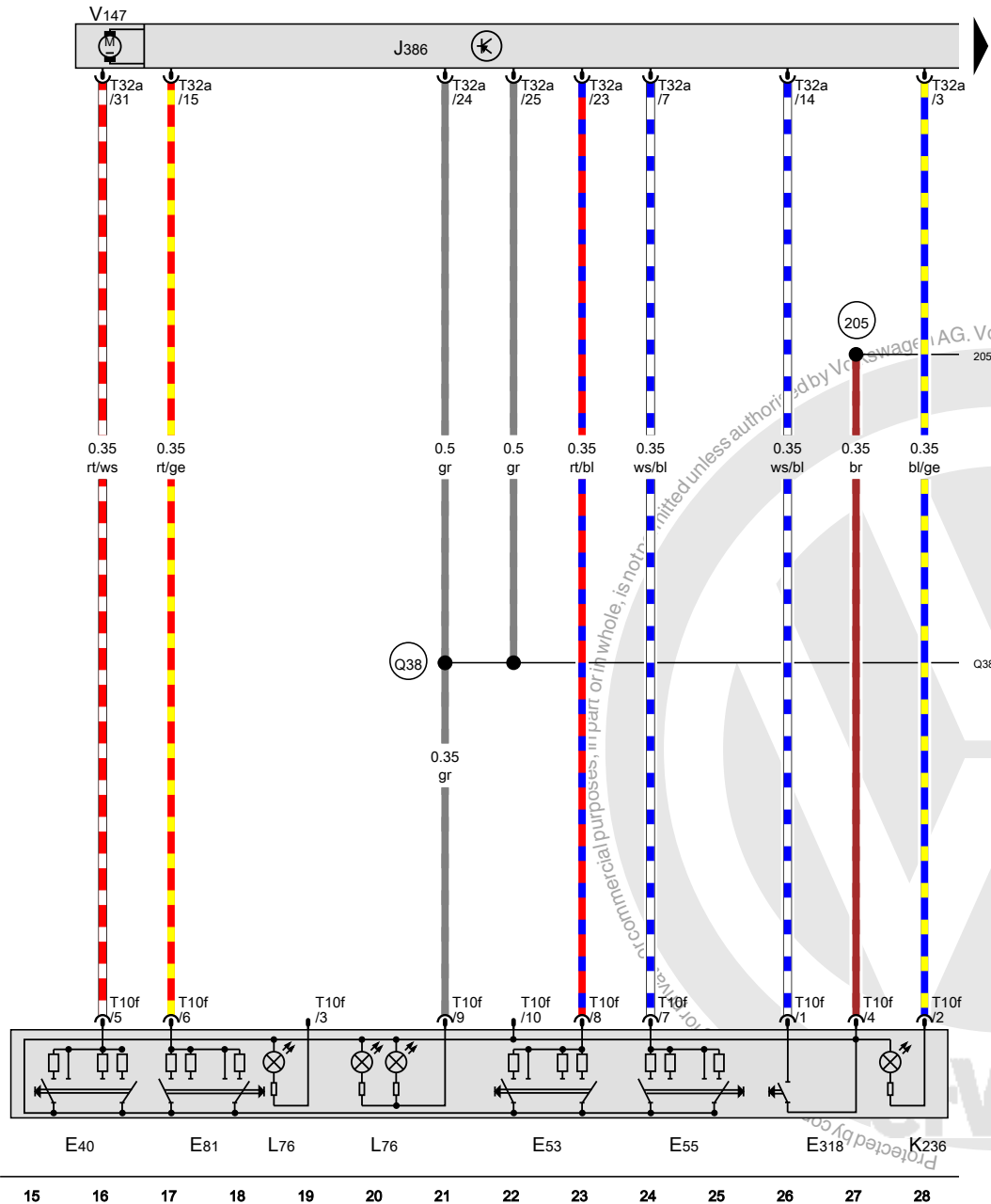


- | | |
|------|--|
| A | Battery |
| C | Generator |
| SA1 | Fuse 1 (on fuse panel A) |
| SA4 | Fuse 4 (on fuse panel A) |
| SB25 | Fuse 25 (on fuse panel B) |
| SC | Fuse panel C |
| SC22 | Fuse 22 (on fuse panel C) |
| SC36 | Fuse 36 (on fuse panel C) |
| SC45 | Fuse 45 (on fuse panel C) |
| SC46 | Fuse 46 (on fuse panel C) |
| SC48 | Fuse 48 (on fuse panel C) |
| SC51 | Fuse 51 (on fuse panel C) |
| 508 | Terminal 30 threaded connection (on E-box) |
| A62 | Power window connection (in instrument panel wiring harness) |
| B111 | Positive connection 1 (30a) (in interior wiring harness) |
| B169 | Positive connection 1 (30) (in interior wiring harness) |
| B170 | Positive connection 2 (30) (in interior wiring harness) |
| B171 | Positive connection 3 (30) (in interior wiring harness) |
| S25 | Positive connection (30a) (in central locking system wiring harness) |
| * | Only for vehicles without hybrid drive |
| *2 | Diameter depends on equipment |
| *3 | Refer to applicable high-voltage system wiring diagram |

Left front window regulator switch, Left rear window regulator switch in driver door, Right rear window regulator switch in driver door, Right front power window switch in driver door, Child safety lock button, Driver door control module

- E40 Left front window regulator switch
- E53 Left rear window regulator switch in driver door
- E55 Right rear window regulator switch in driver door
- E81 Right front power window switch in driver door
- E318 Child safety lock button
- J386 Driver door control module
- K236 Child safety lock -activated- indicator lamp
- L76 Push button illumination bulb
- T10f 10-pin connector
- T32a 32-pin connector
- V147 Driver window regulator motor

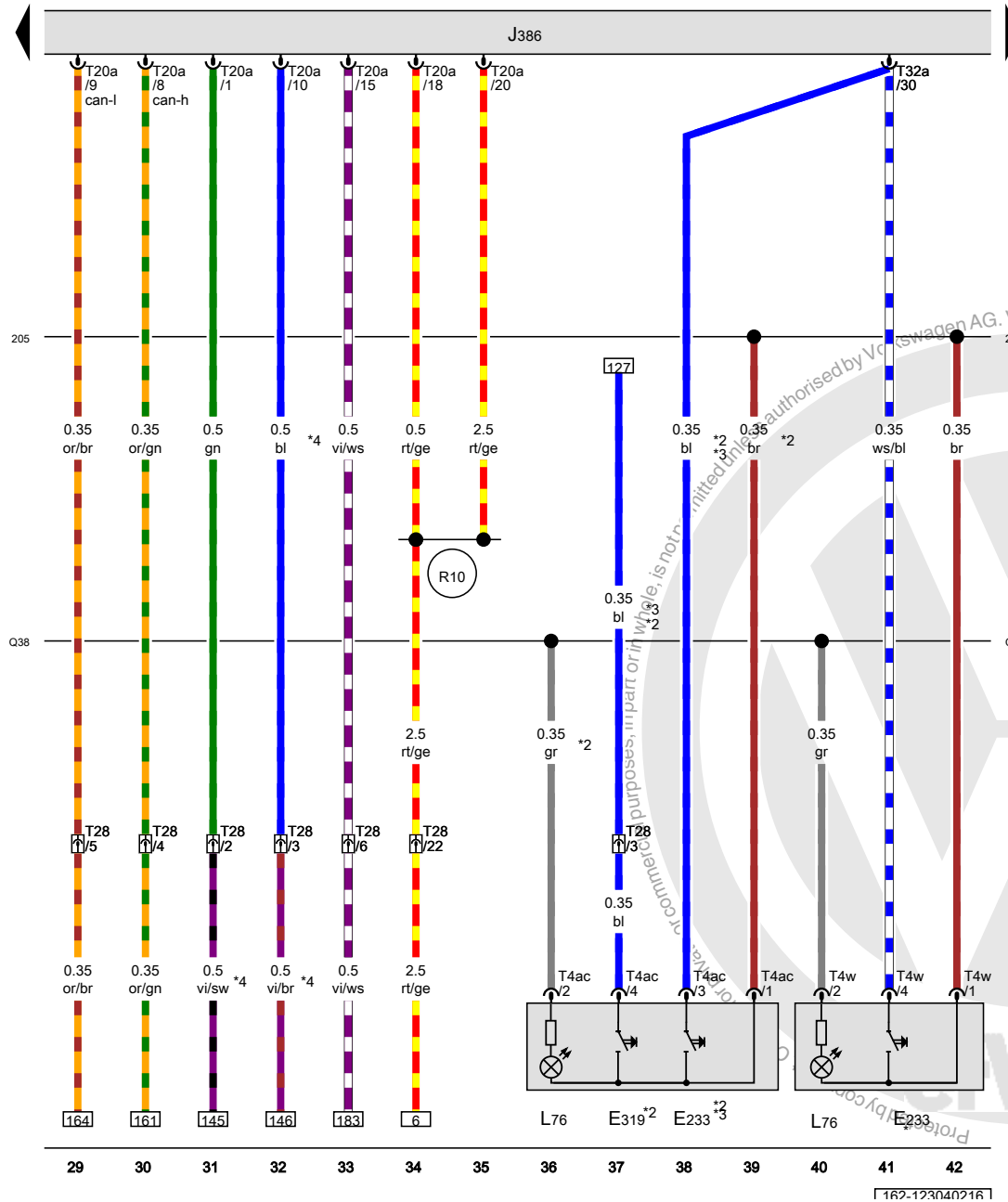
- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)

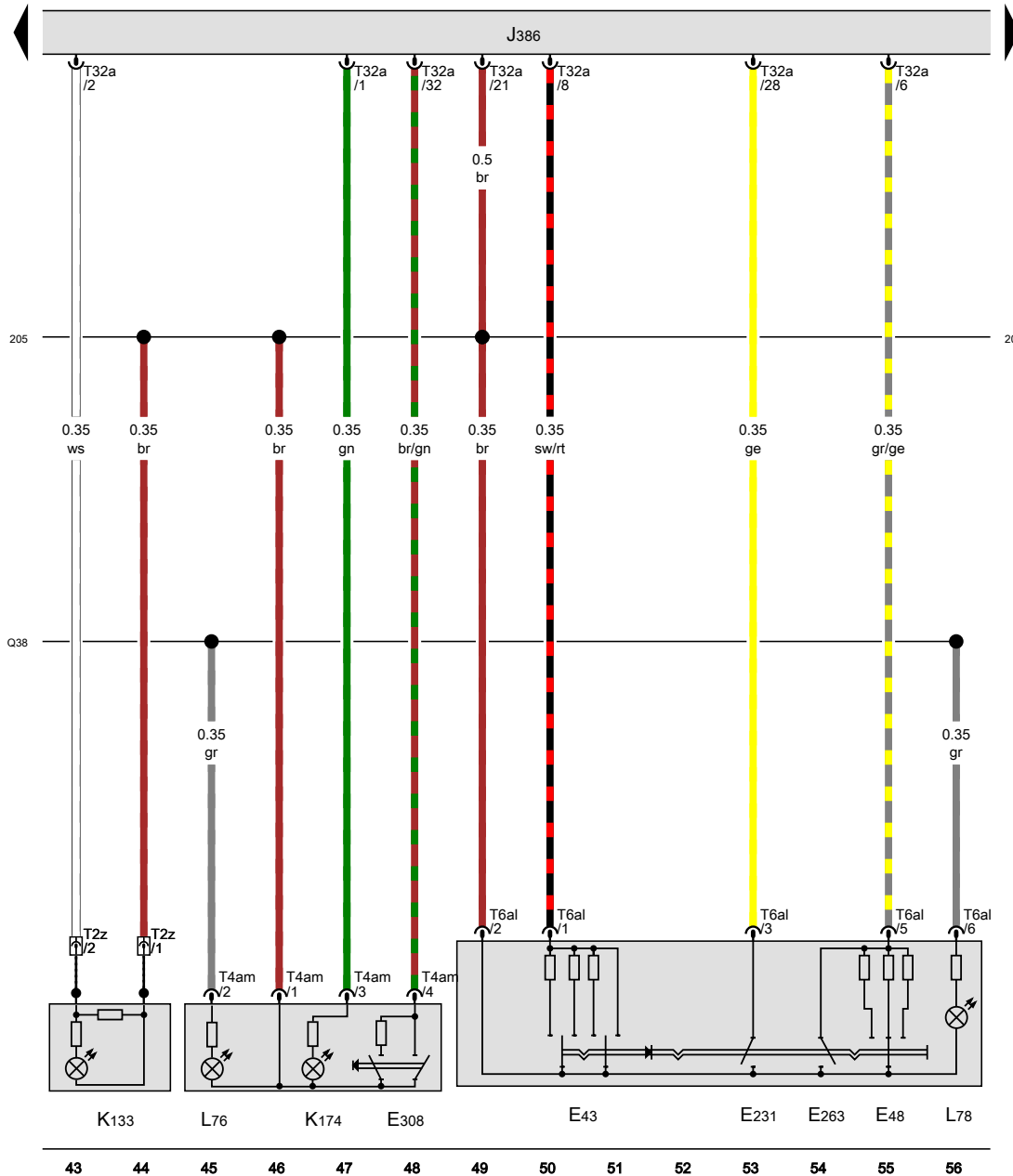


- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = violet
- ge = yellow
- or = orange
- rs = pink

162-123030216

Rear lid remote release button, Fuel filler door release button, Driver door control module



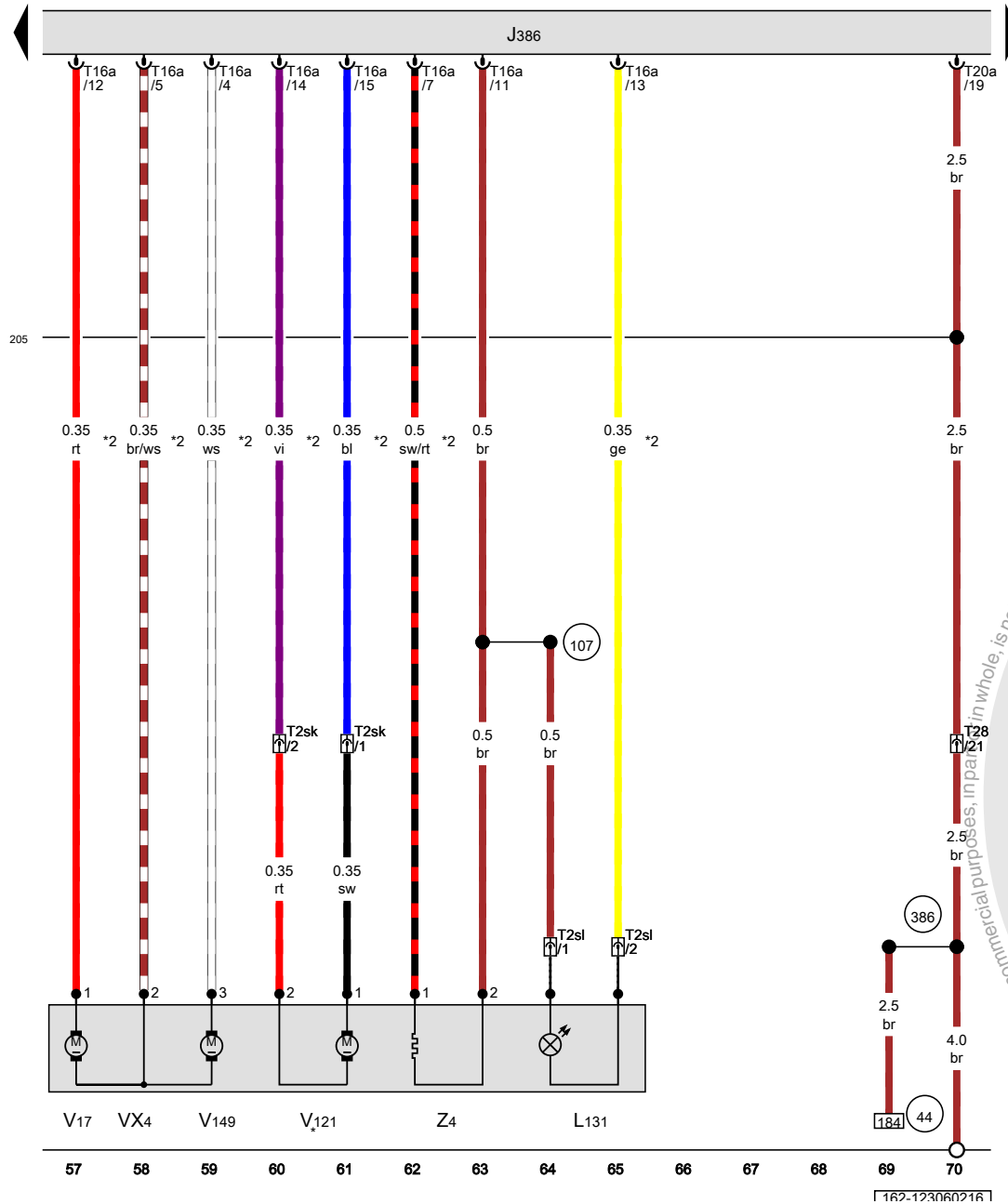


Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Mirror folding switch, Driver interior locking button, Driver door control module, Central locking -SAFE- indicator lamp, Mirror adjustment switch illumination bulb

- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E231 Exterior rearview mirror heating switch
- E263 Mirror folding switch
- E308 Driver interior locking button
- J386 Driver door control module
- K133 Central locking -SAFE- indicator lamp
- K174 Driver interior locking indicator lamp
- L76 Push button illumination bulb
- L78 Mirror adjustment switch illumination bulb
- T2z 2-pin connector
- T4am 4-pin connector
- T6al 6-pin connector
- T32a 32-pin connector

- 205 Ground connection (in driver door wiring harness)
- Q38 Positive connection 1 (58b) (in power window wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



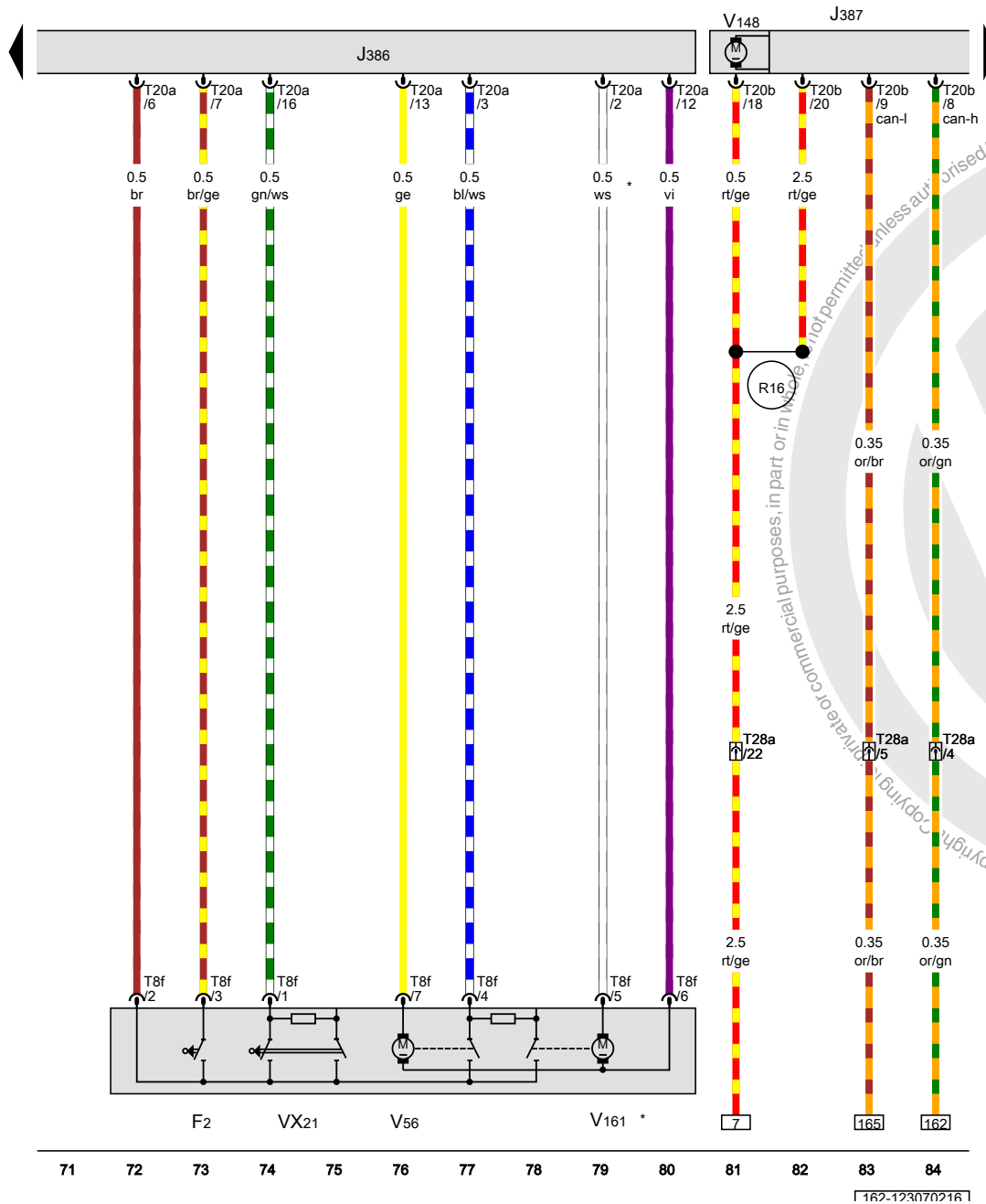
Driver door control module, Driver exterior rearview mirror, Driver exterior rearview mirror folding motor, Driver mirror adjustment motor

- J386 Driver door control module
- L131 Driver exterior rearview mirror turn signal bulb
- T2sk 2-pin connector
- T2sl 2-pin connector
- T16a 16-pin connector
- T20a 20-pin connector
- T28 28-pin connector, Left A-pillar, bottom
- VX4 Driver exterior rearview mirror
- V17 Driver mirror adjustment motor 2
- V121 Driver exterior rearview mirror folding motor
- V149 Driver mirror adjustment motor
- Z4 Heated driver exterior rearview mirror

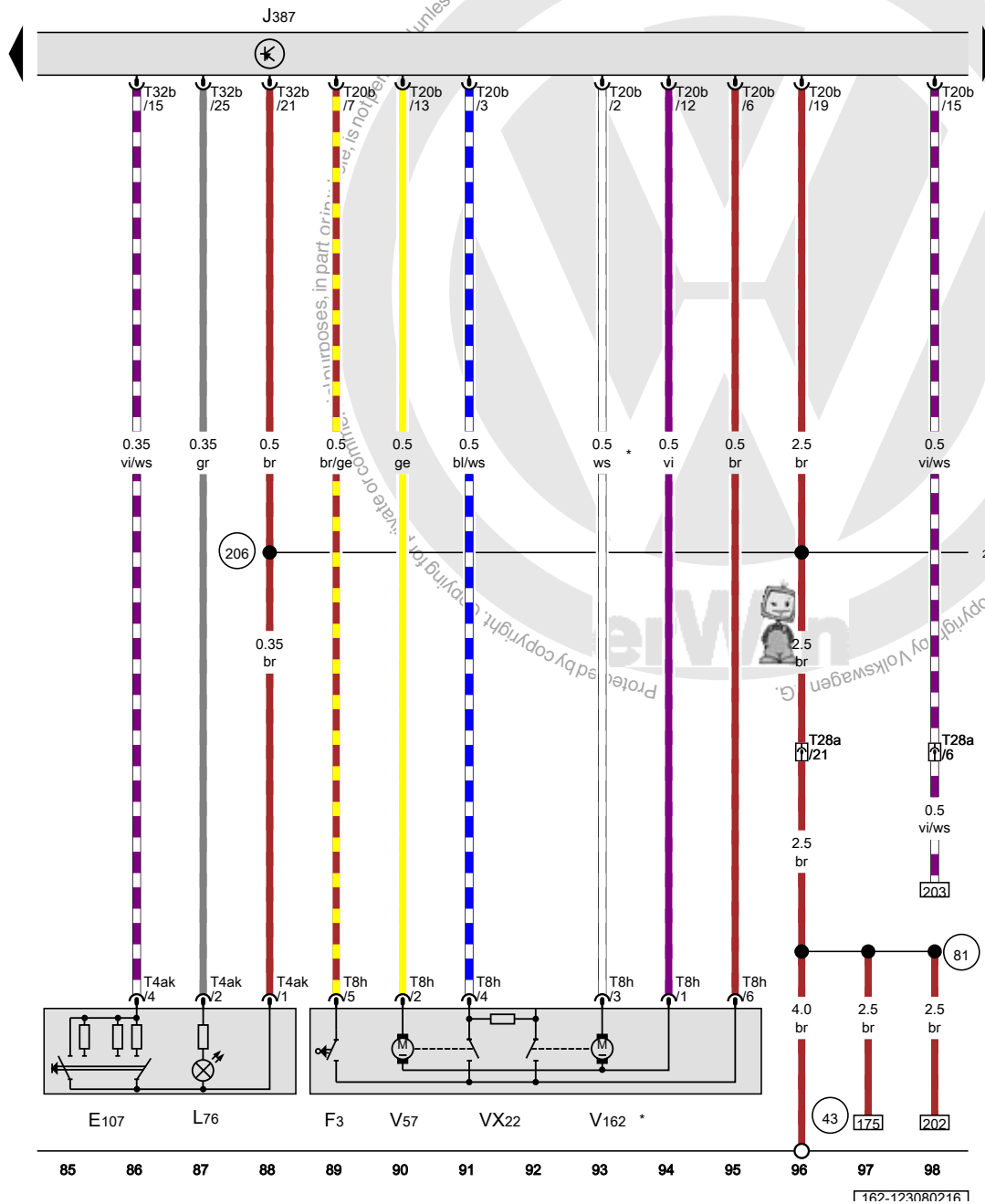
- 44 Ground connection on A-pillar, lower left
- 107 Ground connection (in exterior mirror wiring harness)
- 205 Ground connection (in driver door wiring harness)
- 386 Ground connection 21 (in main wiring harness)
- * Depending on equipment
- *2 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Driver door contact switch, Driver door control module, Front passenger door control module, Driver door lock unit, Driver door central locking system motor, Front passenger window regulator motor



- F2 Driver door contact switch
- J386 Driver door control module
- J387 Front passenger door control module
- T8f 8-pin connector
- T20a 20-pin connector
- T20b 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- VX21 Driver door lock unit
- V56 Driver door central locking system motor
- V148 Front passenger window regulator motor
- V161 Driver door central locking -SAFE- motor
- R16 Positive connection 1 (30) (in front passenger door wiring harness)
- * Not for USA

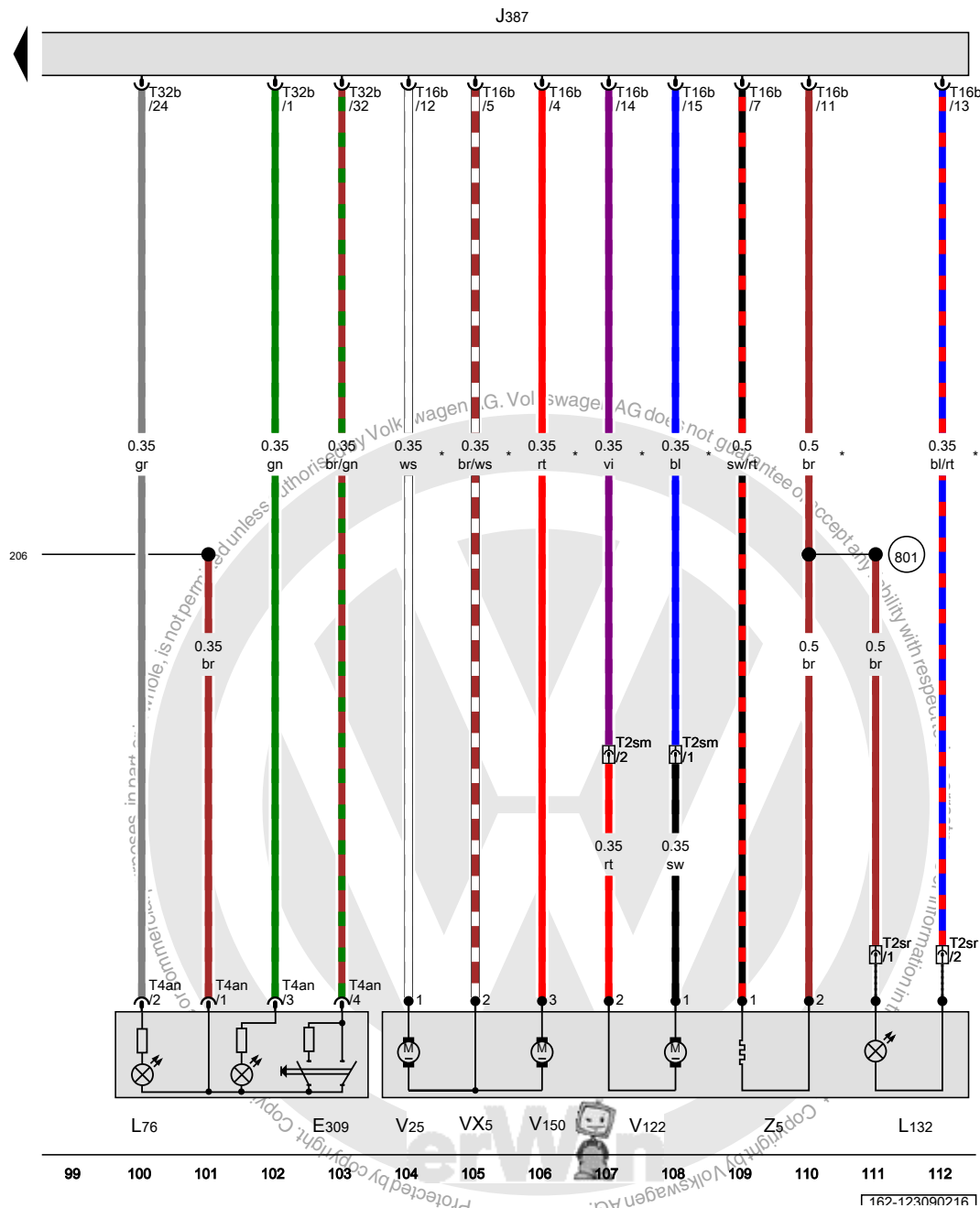


Front passenger door window regulator switch, Front passenger door contact switch, Front passenger door control module, Front passenger door lock unit, Front passenger door central locking system motor

- E107 Front passenger door window regulator switch
- F3 Front passenger door contact switch
- J387 Front passenger door control module
- L76 Push button illumination bulb
- T4ak 4-pin connector
- T8h 8-pin connector
- T20b 20-pin connector
- T28a 28-pin connector, Right A-pillar, bottom
- T32b 32-pin connector
- VX22 Front passenger door lock unit
- V57 Front passenger door central locking system motor
- V162 Front passenger central locking -SAFE- motor

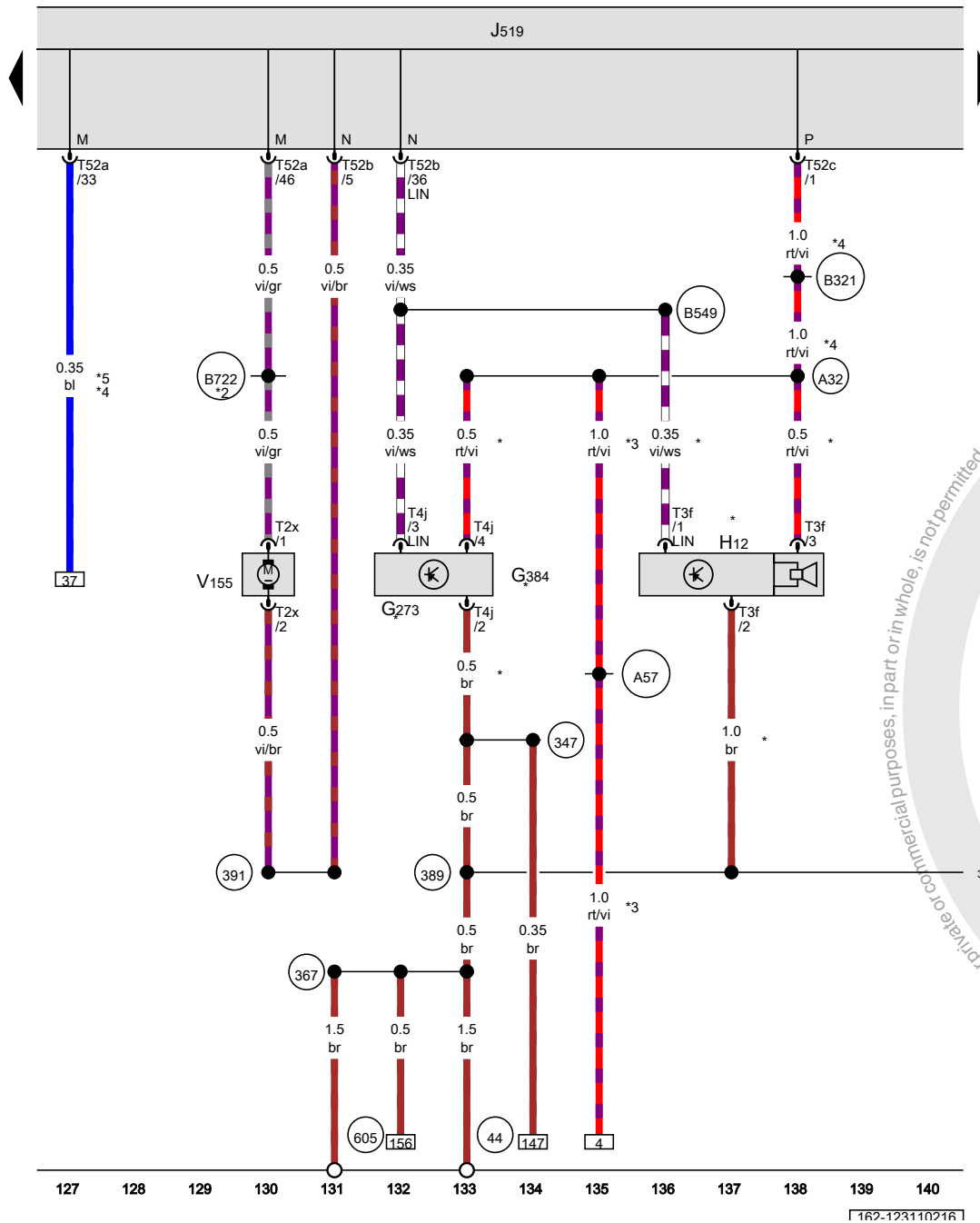
- 43 Ground connection on A-pillar, lower right
- 81 Ground connection 1 (in instrument panel wiring harness)
- 206 Ground connection (in front passenger door wiring harness)
- * Not for USA

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink



Front passenger interior locking button, Front passenger door control module, Front passenger exterior rearview mirror, Front passenger side mirror adjustment motor 2, Front passenger exterior rearview mirror folding motor, Front passenger mirror adjustment motor

- E309 Front passenger interior locking button
 - J387 Front passenger door control module
 - L76 Push button illumination bulb
 - L132 Front passenger exterior rearview mirror turn signal bulb
 - T2sm 2-pin connector
 - T2sr 2-pin connector
 - T4an 4-pin connector
 - T16b 16-pin connector
 - T32b 32-pin connector
 - VX5 Front passenger exterior rearview mirror
 - V25 Front passenger side mirror adjustment motor 2
 - V122 Front passenger exterior rearview mirror folding motor
 - V150 Front passenger mirror adjustment motor
 - Z5 Heated front passenger exterior rearview mirror
- 206 Ground connection (in front passenger door wiring harness)
- 801 Ground connection 2 (in exterior rearview mirror wiring harness)
- * The color of the wires depends on vehicle equipment



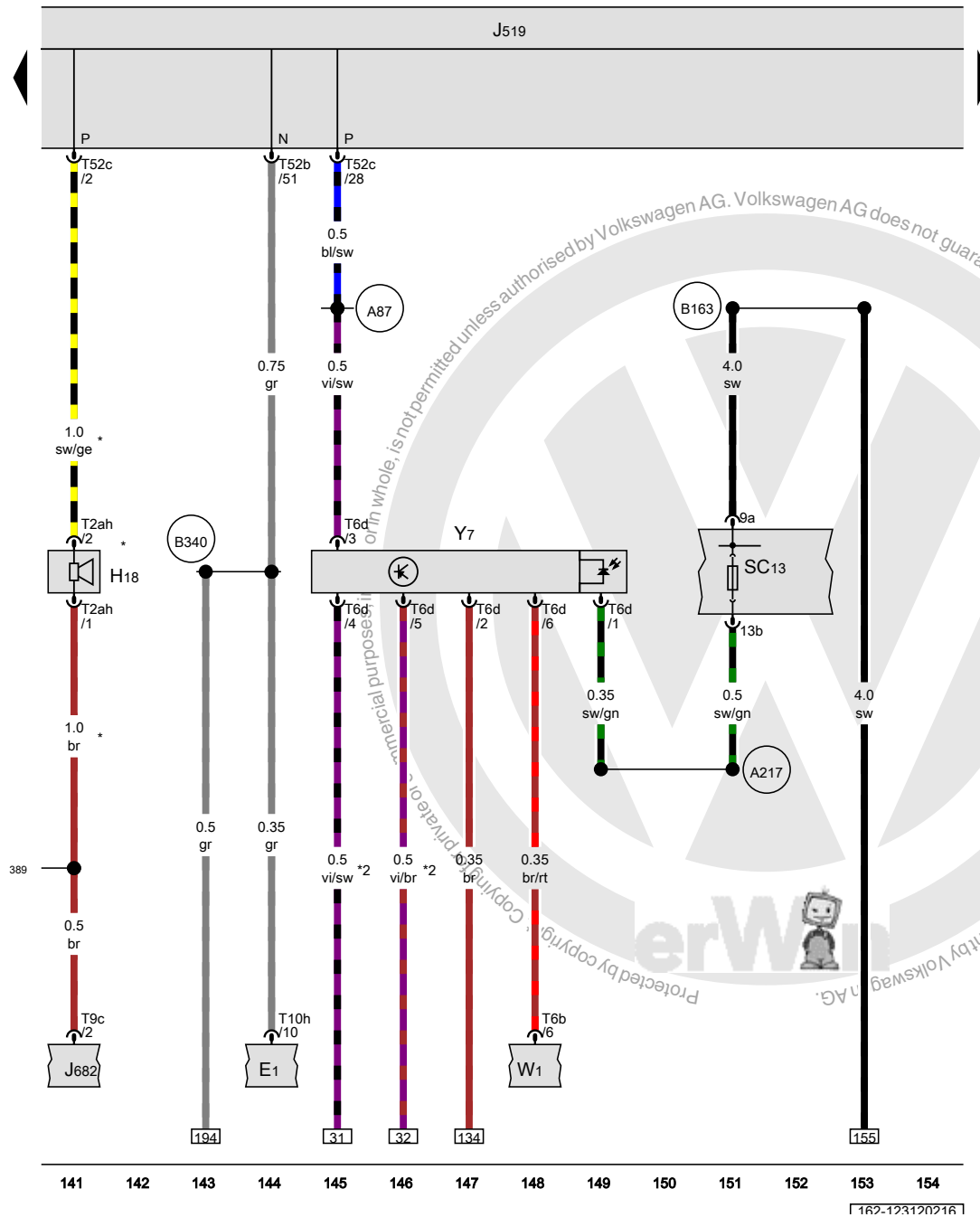
Interior monitoring sensor, Vehicle inclination sensor, Alarm horn, Vehicle electrical system control module, Fuel filler door lock motor

- G273 Interior monitoring sensor
- G384 Vehicle inclination sensor
- H12 Alarm horn
- J519 Vehicle electrical system control module
- T2x 2-pin connector
- T3f 3-pin connector
- T4j 4-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V155 Fuel filler door lock motor

- 44 Ground connection on A-pillar, lower left
- 347 Ground connection (in roof wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 391 Ground connection 26 (in main wiring harness)
- 605 Ground connection on upper steering column
- A32 Positive connection (30) (in instrument panel wiring harness)
- A57 Positive connection 3 (30) (in instrument panel wiring harness)
- B321 Positive connection 7 (30a) (in main wiring harness)
- B549 LIN bus connection 2 (in main wiring harness)
- B722 Central locking connection 3 (in main wiring harness)

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

- * Not for USA
- *2 Running change
- *3 Diameter depends on equipment
- *4 USA only
- *5 only for vehicles with hybrid drive



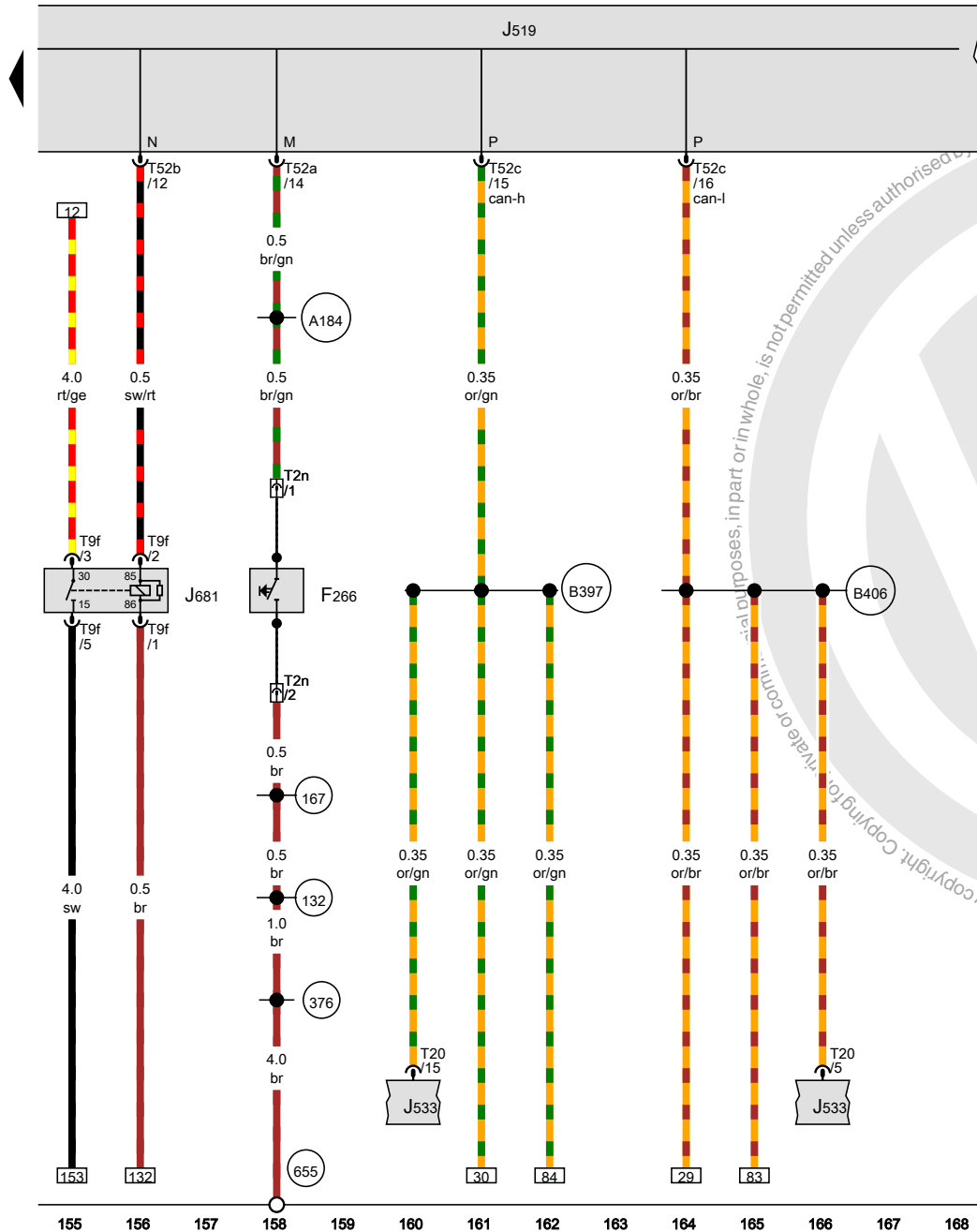
Vehicle electrical system control module, Automatic dimming interior rearview mirror

- E1 Light switch
- H18 Alarm system horn
- J519 Vehicle electrical system control module
- J682 Terminal 50 power supply relay
- SC13 Fuse 13 (on fuse panel C)
- T2ah 2-pin connector
- T6b 6-pin connector
- T6d 6-pin connector
- T9c 9-pin connector
- T10h 10-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W1 Front interior lamp
- Y7 Automatic dimming interior rearview mirror

- 389 Ground connection 24 (in main wiring harness)
- A87 Back-up lamp connection (in instrument panel wiring harness)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- * USA only
- *2 Omitted as a running change

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Engine hood contact switch, Vehicle electrical system control module, Terminal 15 power supply relay 2

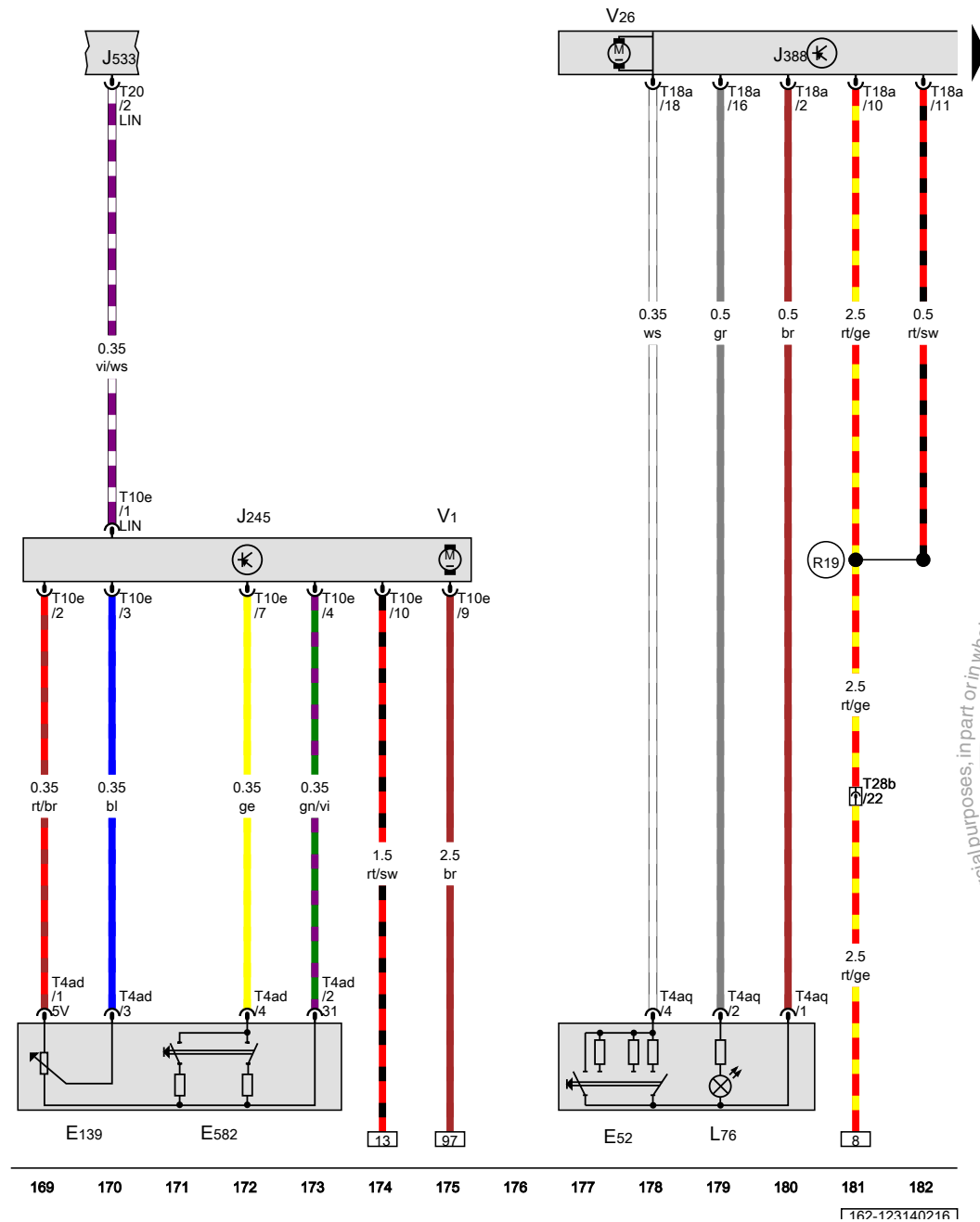


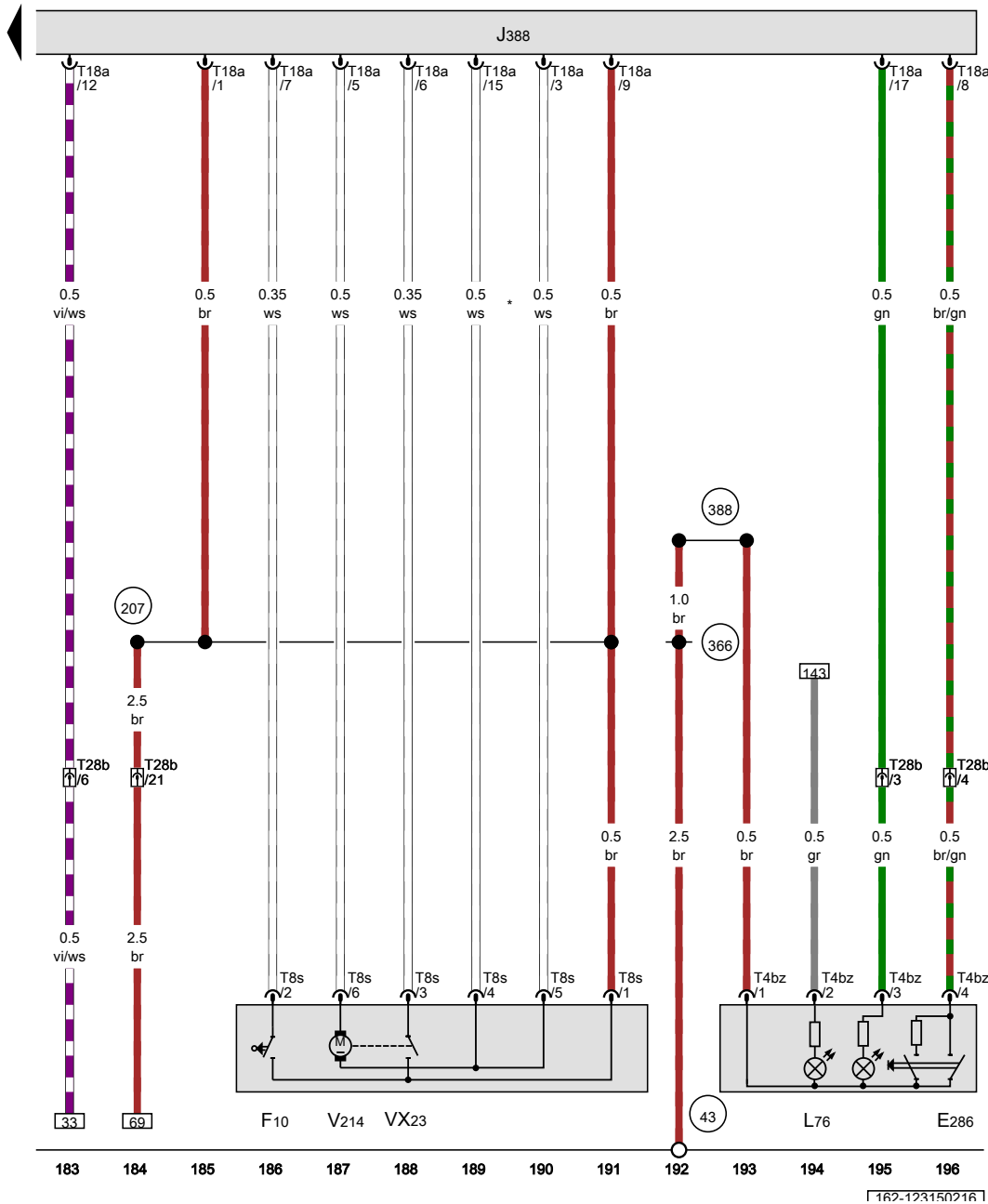
- F266 Engine hood contact switch
- J519 Vehicle electrical system control module
- J533 Data bus on board diagnostic interface
- J681 Terminal 15 power supply relay 2
- T2n 2-pin connector
- T9f 9-pin connector
- T20 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 132 Ground connection 3 (in engine compartment wiring harness)
- 167 Ground connection 4 (in engine compartment wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 655 Ground connection on left headlamp
- A184 Hood contact switch connection (in instrument panel wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

Left rear power window switch in left rear door, Sunroof adjustment regulator, Sunroof tilt button 1, Power sunroof control module, Left rear door control module, Sunroof motor, Left rear window regulator motor





Rear center interior locking switch, Left rear door contact switch, Left rear door control module, Left rear door lock unit, Left rear central locking -lock- motor

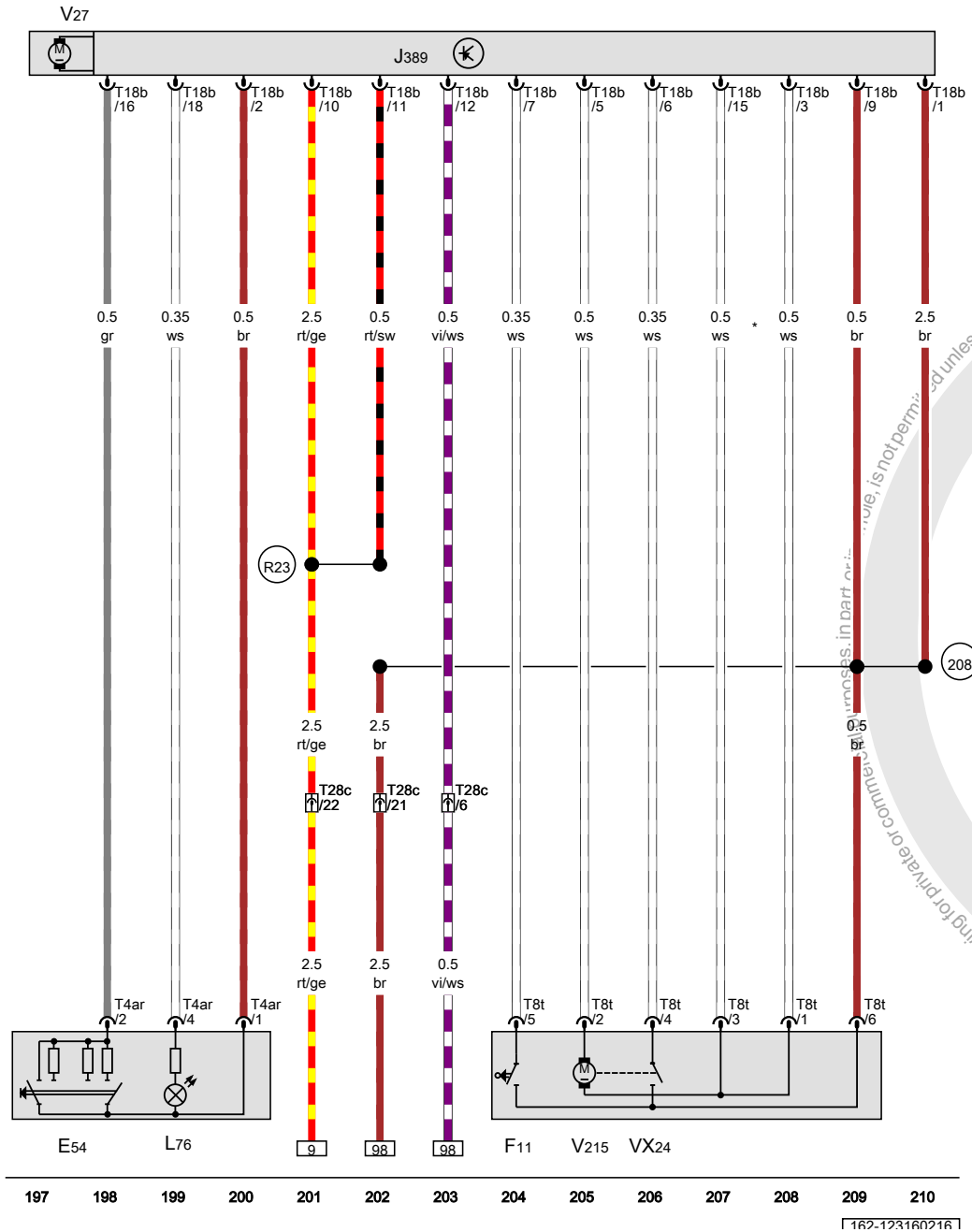
- E286 Rear center interior locking switch
- F10 Left rear door contact switch
- J388 Left rear door control module
- L76 Push button illumination bulb
- T4bz 4-pin connector
- T8s 8-pin connector
- T18a 18-pin connector
- T28b 28-pin connector, on the left B-pillar
- VX23 Left rear door lock unit
- V214 Left rear central locking -lock- motor

- 43 Ground connection on A-pillar, lower right
- 207 Ground connection (in left rear door wiring harness)
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- * Not for USA

Right rear window switch in right rear door, Right rear door contact switch, Right rear door control module, Right rear door lock unit, Right rear window regulator motor, Right rear central locking -lock- motor

- E54 Right rear window switch in right rear door
- F11 Right rear door contact switch
- J389 Right rear door control module
- L76 Push button illumination bulb
- T4ar 4-pin connector
- T8t 8-pin connector
- T18b 18-pin connector
- T28c 28-pin connector, on the right B-pillar
- VX24 Right rear door lock unit
- V27 Right rear window regulator motor
- V215 Right rear central locking -lock- motor

- 208 Ground connection (in right rear door wiring harness)
- R23 Positive connection 1 (30) (in right rear door wiring harness)
- * Not for USA



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- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

1 Comp. Loc. Fuses

1.1 Overview of Fuses (SA), (SB), (SC)

1 - Fuses (SA) on fuse panel A

- ☐ ⇒ ["1.2 Fuse \(SA\) on E-box, without hybrid system", page 1](#)
- ☐ ⇒ ["1.3 Fuse \(SA\) on E-box, with hybrid system", page 3](#)
- ☐ ⇒ ["1.4 Jump start connection TV32, Hybrid system", page 4](#)

2 - Fuses (SB) on fuse panel B

- ☐ ⇒ ["1.5 Fuse \(SB\) on E-box, from MY 2011", page 5](#)
- ☐ ⇒ ["1.6 Fuse \(SB\) on E-box, from MY 2012", page 8](#)
- ☐ ⇒ ["1.7 Fuse \(SB\) on E-box, from MY 2013", page 11](#)
- ☐ ⇒ ["1.8 Fuse \(SB\) on E-box, from MY 2014", page 15](#)

3 - Fuses (SC) on fuse panel C

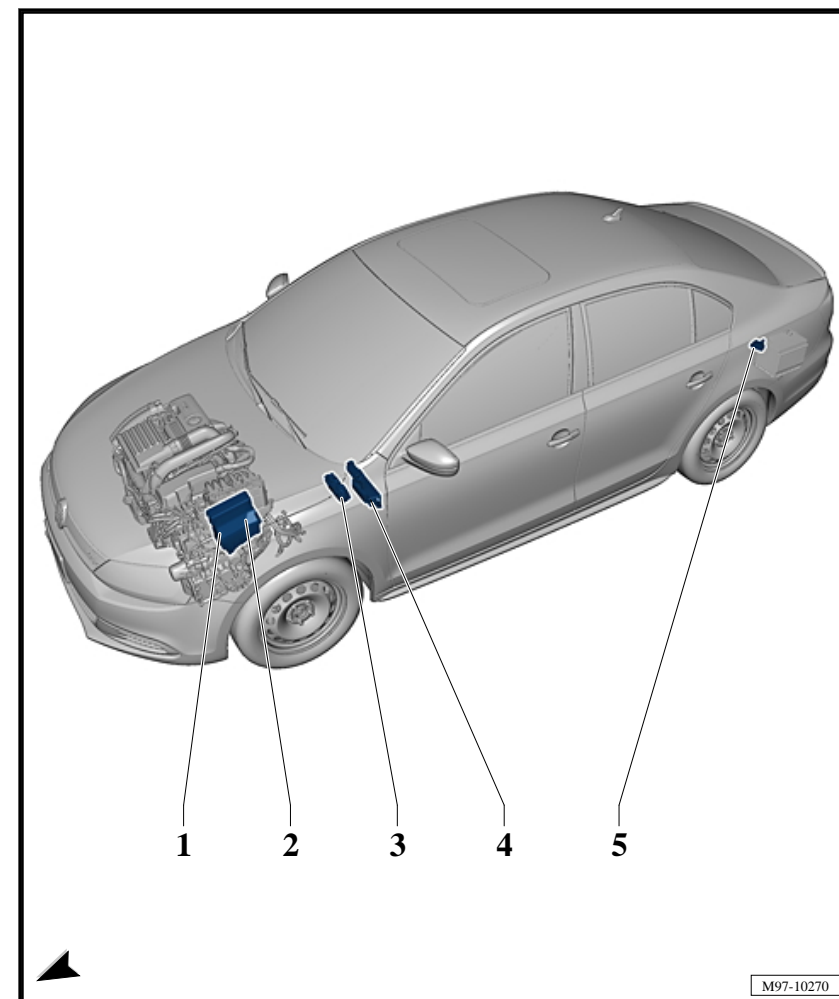
- ☐ ⇒ ["1.9 Fuse \(SC\), from MY 2011", page 19](#)
- ☐ ⇒ ["1.10 Fuse \(SC\), from MY 2012", page 24](#)
- ☐ ⇒ ["1.11 Fuse \(SC\), from MY 2013", page 30](#)
- ☐ ⇒ ["1.12 Fuse \(SC\), from MY 2014", page 36](#)

4 - Driver power seat adjustment circuit breaker 1 -S44-

- ☐ Component location above relay carrier, nominal value 20A

5 - Fuses battery in luggage compartment -S162- , -S163-

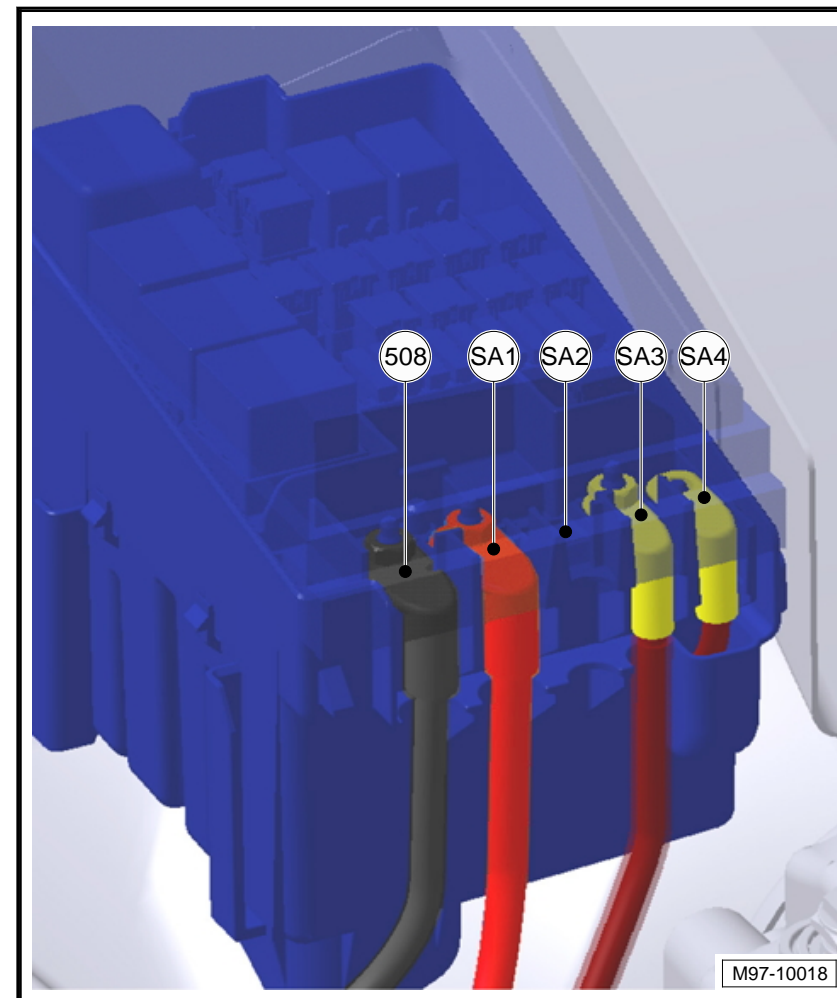
- ☐ ⇒ ["1.13 Fuses battery, Hybrid system", page 42](#)



M97-10270

1.2 Fuse (SA) on E-box, without hybrid system

- Fuse panel A -SA-



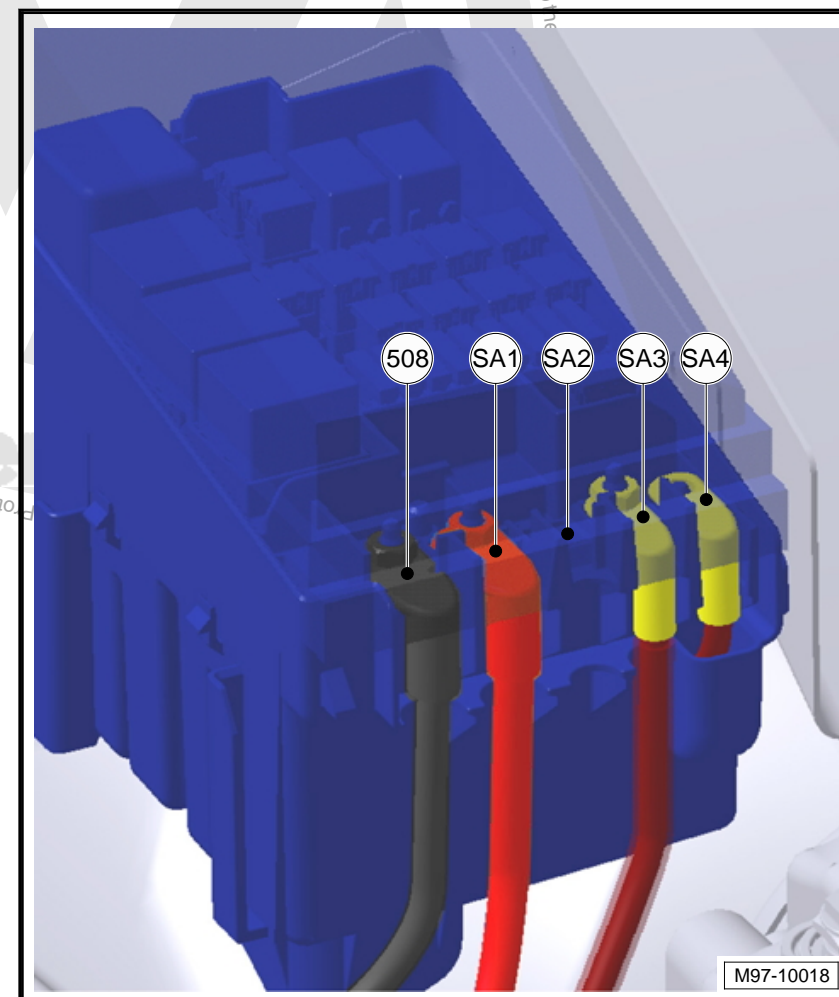
| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|---|---------------|------------------------|----------|
| 508 | A 508 Threaded connection (30) on the E-box | | - | 30a |
| 1 | B Fuse 1 (on fuse panel A) -SA1- | 200A | - Generator -C- (140A) | 30a |
| 2 | C Fuse 2 (on fuse panel A) -SA2- | | - Not used | 30a |
| 3 | D Fuse 3 (on fuse panel A) -SA3- | 80A | - Steering | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|--|----------|
| 4 | E Fuse 4 (on fuse panel A) -SA4- | 80A | Interior terminal 30 power supply SC fuses | 30a |

Return to overview [⇒ page 1](#)

1.3 Fuse (SA) on E-box, with hybrid system

- Fuse panel A -SA-

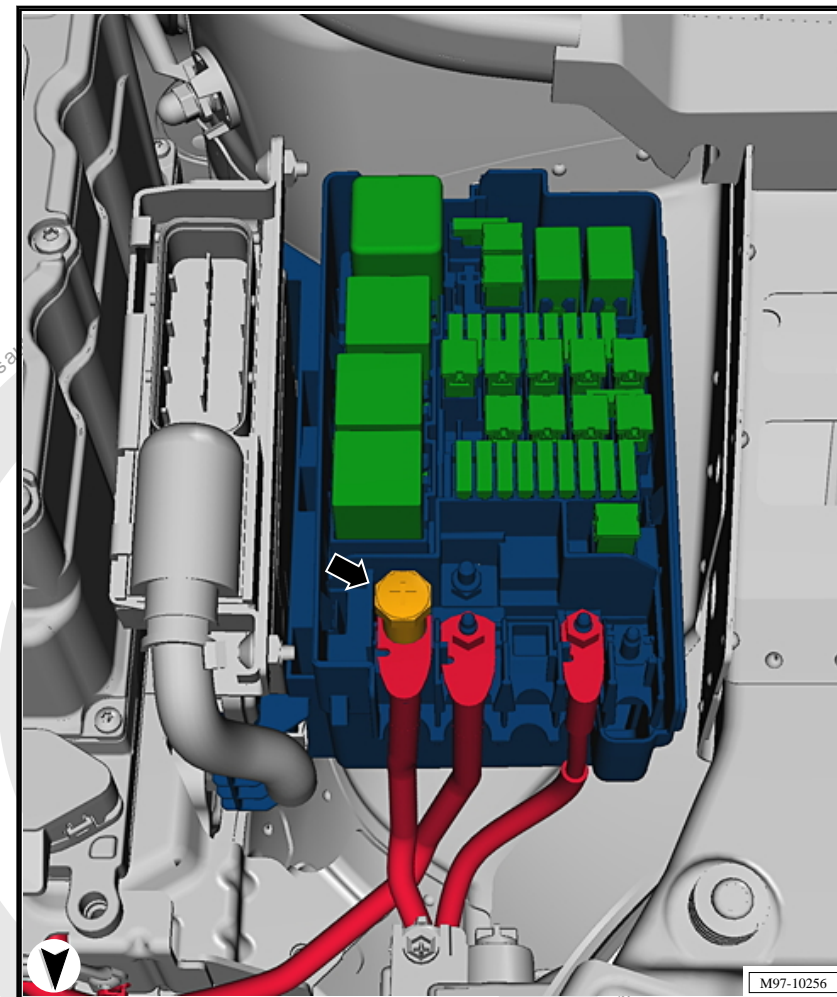


| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|---|---------------|---|----------|
| 508 | A 508 Threaded connection (30) on the E-box | | - | 30a |
| 1 | B Fuse 1 (on fuse panel A) -SA1- | 200A | - Electric drive power and control electronics -JX1- Voltage converter -A19- | 30a |
| 2 | C Fuse 2 (on fuse panel A) -SA2- | | - Not used | 30a |
| 3 | D Fuse 3 (on fuse panel A) -SA3- | 80A | - Steering | 30a |
| 4 | E Fuse 4 (on fuse panel A) -SA4- | | Not used | |

Return to overview ⇒ [page 1](#)

1.4 Jump start connection TV32, Hybrid system

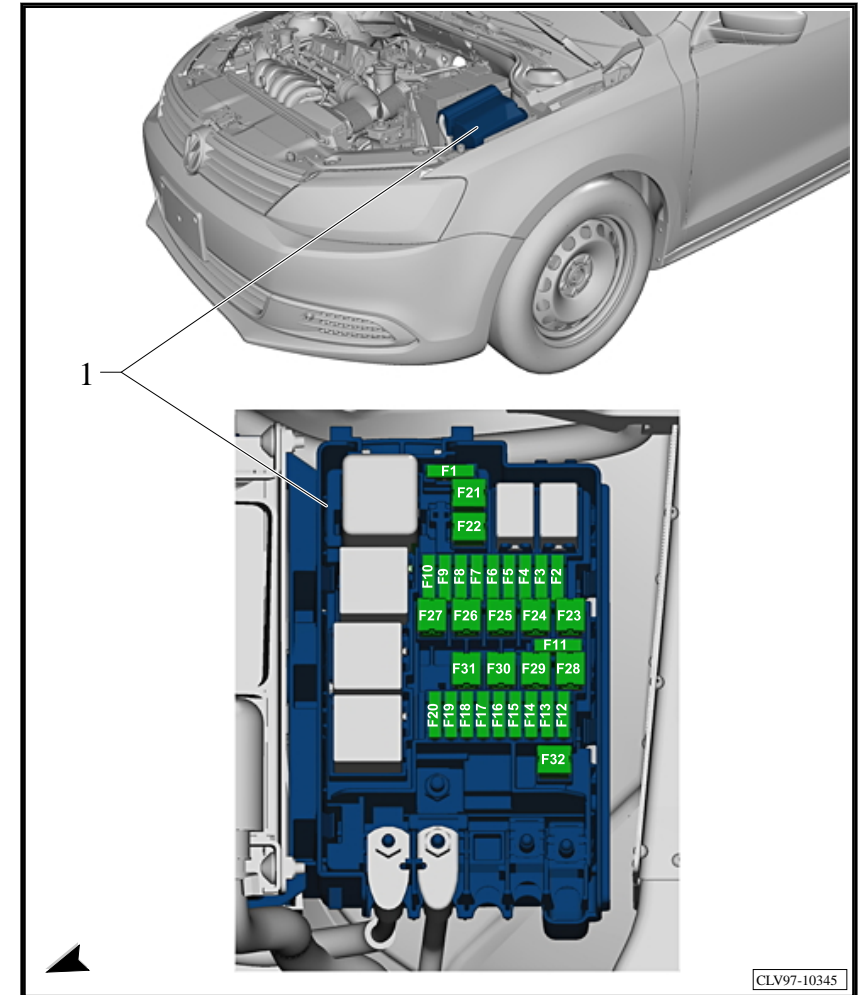
1 - Jump start connection -TV32- -Arrow-



Return to overview ⇒ [page 1](#)

1.5 Fuse (SB) on E-box, from MY 2011

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| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|--|----------|
| F1 | - Fuse 1 (on fuse panel B) -SB1- | | - Not used | - |
| F2 | - Fuse 2 (on fuse panel B) -SB2- | 10/15A | - Engine control module -J623- | 87 |
| F3 | - Fuse 3 (on fuse panel B) -SB3- | 5A | - Coolant fan control module -J293- | 87 |
| F4 | - Fuse 4 (on fuse panel B) -SB4- | 5/10/15A | - Oxygen sensor heater -Z19- Heater for oxygen sensor 1 after catalytic converter -Z29- | 87 |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|------------------|--|----------|
| F5 | Fuse 5 (on fuse panel B) -SB5- | 5A 20A | - Oxygen sensor heater -Z19- ¹ - Heater for oxygen sensor 1 after catalytic converter -Z29- ¹ Leak detection pump -V144- Wastegate bypass regulator valve -N75- EGR cooler switch-over valve -N345- Positive crankcase ventilation heating element -N79- Brake system vacuum pump -V192- | 87 |
| F6 | Fuse 6 (on fuse panel B) -SB6- | 5A 10A 15A | - Leak detection pump -V144- Throttle valve control module -J338- EVAP canister purge regulator valve 1 -N80- After-run coolant pump -V51- Auxiliary heater heating element -Z35- | 87 |
| F7 | Fuse 7 (on fuse panel B) -SB7- | 20A 5A | - Ignition coil -N152- - Fuel pressure regulator valve -N276- ² Fuel metering valve -N290- ² | 87 |
| F8 | Fuse 8 (on fuse panel B) -SB8- | 10A | - Throttle valve control module -J338- EVAP canister purge regulator valve 1 -N80- | 87 |
| F9 | Fuse 9 (on fuse panel B) -SB9- | 5A | - Automatic glow time control module -J179- Fuel pump relay 2 -J49- Fuel pump relay -J17- | 87 |
| F10 | Fuse 10 (on fuse panel B) -SB10- | 5A | - Speedometer vehicle speed sensor -G22- Brake lamp switch -F- , (T4al/4) ³ | 87 |
| F11 | Fuse 11 (on fuse panel B) -SB11- | | - Not used | |
| F12 | Fuse 12 (on fuse panel B) -SB12- | 5A | - After-run coolant pump -V50- ¹³ | 87 |
| F13 | Fuse 13 (on fuse panel B) -SB13- | 5A | - Water pump -V36- | 30a |
| F14 | Fuse 14 (on fuse panel B) -SB14- | 5A | - Engine control module -J623- | 30a |
| F15 | Fuse 15 (on fuse panel B) -SB15- | 30A | - Voltage stabilizer -J532- | 30a |
| F16 | Fuse 16 (on fuse panel B) -SB16- | 30A | - ABS control module -J104- | 30a |
| F17 | Fuse 17 (on fuse panel B) -SB17- | 30A | - Automatic transmission control module -J217- | 30a |
| F18 | Fuse 18 (on fuse panel B) -SB18- | 20A | - Automatic transmission control module -J217- | 30a |
| F19 | Fuse 19 (on fuse panel B) -SB19- | 1A | - Vehicle electrical system control module -J519- | 30a |
| F20 | Fuse 20 (on fuse panel B) -SB20- | 30A | Vehicle electrical system control module -J519- (AW0) Wiper/washer intermittent relay -J31- (AW1) | 30a |
| F21 | Fuse 21 (on fuse panel B) -SB21- | 50A | - Secondary air injection pump motor -V101- | 30a |
| F22 | Fuse 22 (on fuse panel B) -SB22- | | - Not used | |
| F23 | Fuse 23 (on fuse panel B) -SB23- | 40A | - ABS control module -J104- | 30a |
| F24 | Fuse 24 (on fuse panel B) -SB24- | 50A | - Towing recognition control module -J345- | |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|---|----------|
| F25 | - Fuse 25 (on fuse panel B) -SB25- | 50A | - Terminal 15 power supply relay 2 -J681- | 30a |
| F26 | - Fuse 26 (on fuse panel B) -SB26- | 60A | - Automatic glow time control module -J179- | 30a |
| F27 | - Fuse 27 (on fuse panel B) -SB27- | 60A | - Coolant fan -V7- | 30a |
| F28 | - Fuse 28 (on fuse panel B) -SB28- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F29 | - Fuse 29 (on fuse panel B) -SB29- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F30 | - Fuse 30 (on fuse panel B) -SB30- | 50A | - Terminal 75 power supply relay 1 -J680- | 30a |
| F31 | - Fuse 31 (on fuse panel B) -SB31- | 30A | - Amplifier -R12- | 30a |
| F32 | - Fuse 32 (on fuse panel B) -SB32- | | - Not used | |

¹ only for ULEV 2 - (7GB) exhaust system

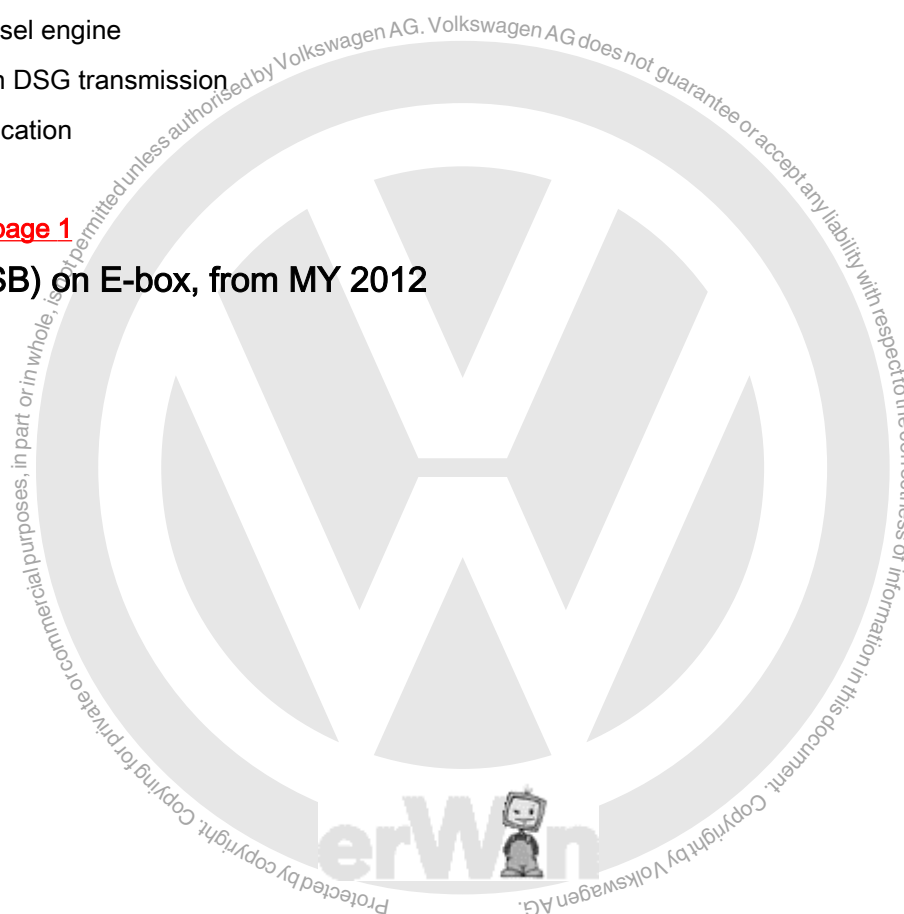
² Only models with diesel engine

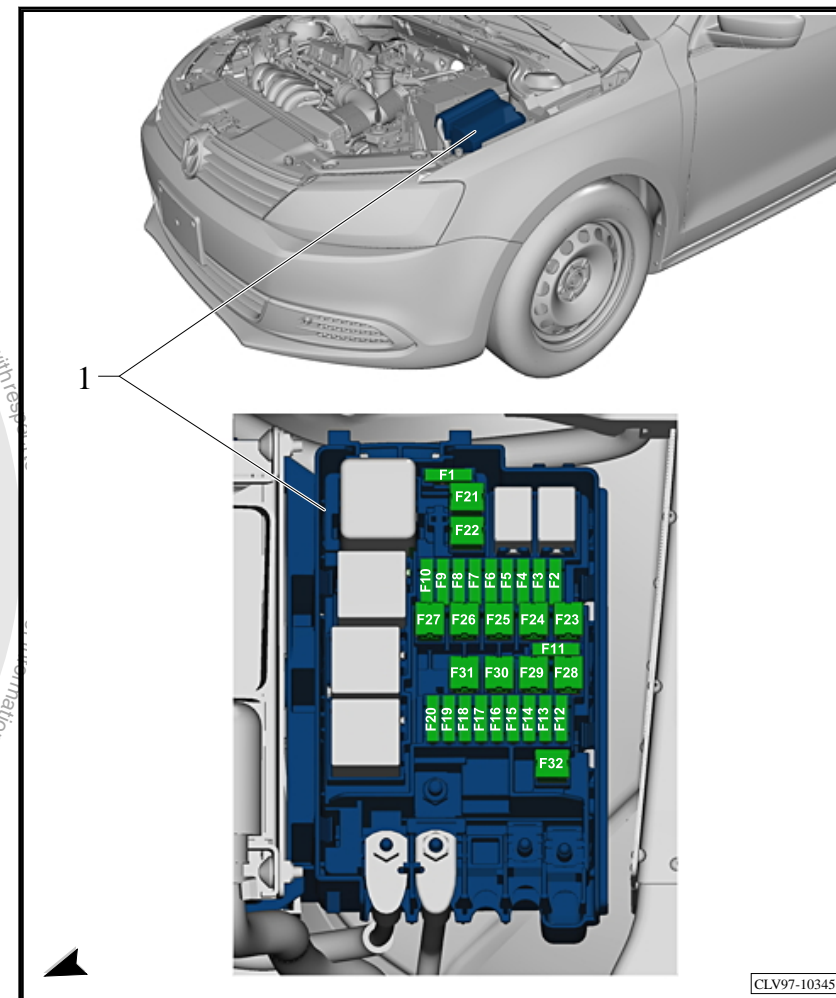
³ Only for vehicles with DSG transmission

¹³⁾ Not for Hybrid application

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1.6 Fuse (SB) on E-box, from MY 2012





| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|--|----------|
| F1 | - Fuse 1 (on fuse panel B) -SB1- | | - Not used | - |
| F2 | - Fuse 2 (on fuse panel B) -SB2- | 10/15A | - Engine control module -J623- | 87 |
| F3 | - Fuse 3 (on fuse panel B) -SB3- | 5A | - Coolant fan control module -J293- | 87 |
| F4 | - Fuse 4 (on fuse panel B) -SB4- | 5/10/15 A | - Oxygen sensor heater -Z19- Heater for oxygen sensor 1 after catalytic converter -Z29- | 87 |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|------------------------|---|----------|
| F5 | - Fuse 5 (on fuse panel B) -SB5- | 5A 10A/ 20A | - Oxygen sensor heater -Z19- ¹ - Leak detection pump -V144- - Wastegate bypass regulator valve -N75- - EGR cooler switch-over valve -N345- - Positive crankcase ventilation heating element -N79- - Brake system vacuum pump -V192- | 87 |
| F6 | - Fuse 6 (on fuse panel B) -SB6- | 5/10/15 A | - Leak detection pump -V144- - Throttle valve control module -J338- - EVAP canister purge regulator valve 1 -N80- | 87 |
| F6 | - Fuse 6 (on fuse panel B) -SB6- | 10A 15A | - Water pump -V36- - Auxiliary heater heating element -Z35- , low heat output | 87 |
| F7 | - Fuse 7 (on fuse panel B) -SB7- | 20A | - Ignition coil 1 with power output stage -N70- - Ignition coil 2 with power output stage -N127- - Ignition coil 3 with power output stage -N291- - Ignition coil 4 with power output stage -N292- - Ignition coil -N152- | 87 |
| F7 | - Fuse 7 (on fuse panel B) -SB7- | 5A | - Fuel pressure regulator valve -N276- ² - Fuel metering valve -N290- ² | 87 |
| F8 | - Fuse 8 (on fuse panel B) -SB8- | 10A | - Throttle valve control module -J338- - Wastegate bypass regulator valve -N75- - EVAP canister purge regulator valve 1 -N80- - Camshaft adjustment valve 1 -N205- - Turbocharger recirculation valve -N249- | 87 |
| F9 | - Fuse 9 (on fuse panel B) -SB9- | 5A 15A ¹ | - Automatic glow time control module -J179- - Fuel pump relay 2 -J49- - Fuel pump relay -J17- - Fuel pressure regulator valve -N276- | 87 |
| F10 | - Fuse 10 (on fuse panel B) -SB10- | 5A | - Speedometer vehicle speed sensor -G22- - Brake lamp switch -F- ³ - Clutch position sensor -G476- - Auxiliary engine coolant pump relay -J496- | 87 |
| F11 | - Fuse 11 (on fuse panel B) -SB11- | | - Not used | |
| F12 | - Fuse 12 (on fuse panel B) -SB12- | 5A | - After-run coolant pump -V50- ¹³ | 87 |
| F12 | - Fuse 12 (on fuse panel B) -SB12- | 20A | - Vacuum pump relay -J318- - Brake system vacuum pump -V192- | 87 |
| F13 | - Fuse 13 (on fuse panel B) -SB13- | 5A | - Fuel pump relay -J17- - Transfer fuel pump -G6- - Water pump -V36- | 30a |
| F14 | - Fuse 14 (on fuse panel B) -SB14- | 5A | - Engine control module -J623- | 30a |
| F15 | - Fuse 15 (on fuse panel B) -SB15- | 30A | - Voltage stabilizer -J532- | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|--|----------|
| F16 | - Fuse 16 (on fuse panel B) -SB16- | 30A | - ABS control module -J104- | 30a |
| F17 | - Fuse 17 (on fuse panel B) -SB17- | 30A | - DSG transmission Mechatronic -J743- | 30a |
| F18 | - Fuse 18 (on fuse panel B) -SB18- | 20A | - DSG transmission Mechatronic -J743- | 30a |
| F19 | - Fuse 19 (on fuse panel B) -SB19- | 1A | - Vehicle electrical system control module -J519- (AW0) | 30a |
| F20 | - Fuse 20 (on fuse panel B) -SB20- | 30A | Vehicle electrical system control module -J519- (AW0) Wiper/washer intermittent relay -J31- (AW1) Wiper motor change-over relay 1 -J368- (AW1) Wiper motor change-over relay 2 -J369- (AW1) | 30a |
| F21 | - Fuse 21 (on fuse panel B) -SB21- | 50A | - Secondary air injection pump motor -V101- | 87 |
| F22 | - Fuse 22 (on fuse panel B) -SB22- | | - Not used | |
| F23 | - Fuse 23 (on fuse panel B) -SB23- | 40A | - ABS control module -J104- | 30a |
| F24 | - Fuse 24 (on fuse panel B) -SB24- | 50A | - Towing recognition control module -J345- | 30a |
| F25 | - Fuse 25 (on fuse panel B) -SB25- | 50A | Terminal 15 power supply relay -J329- Terminal 15 power supply relay 2 -J681- | 30a |
| F26 | - Fuse 26 (on fuse panel B) -SB26- | 50A | - Automatic glow time control module -J179- | 30a |
| F27 | - Fuse 27 (on fuse panel B) -SB27- | 60A | - Coolant fan -V7- | 30a |
| F28 | - Fuse 28 (on fuse panel B) -SB28- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F29 | - Fuse 29 (on fuse panel B) -SB29- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F30 | - Fuse 30 (on fuse panel B) -SB30- | 50A | - Terminal 75 power supply relay 1 -J680- | 30a |
| F31 | - Fuse 31 (on fuse panel B) -SB31- | 30A | - Amplifier -R12- | 30a |
| F32 | - Fuse 32 (on fuse panel B) -SB32- | 40A | - Auxiliary heater heating element -Z35- | 87 |

¹ only for ULEV 2 - (7GB) exhaust system

² Only models with diesel engine

³ Only for vehicles with DSG transmission

¹³⁾ Not for Hybrid application

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1.7 Fuse (SB) on E-box, from MY 2013

The diagram shows the front of a car with the hood open. A blue fuse box is located in the engine compartment. A line labeled '1' points from this fuse box to a detailed view of the fuse box interior. The detailed view shows a blue fuse box with 32 fuses labeled F1 through F32. The fuses are arranged in a grid: F1-F10 in the top row, F11-F20 in the second row, F21-F30 in the third row, and F31-F32 in the bottom row. The fuses are color-coded: green for F1-F10, F11-F20, F21-F30, and F31-F32; and blue for F21-F30 and F31-F32. The fuse box is mounted on a metal plate with two screws.

Edition 07.2018

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|-------------------|---|----------|
| F4 | - Fuse 4 (on fuse panel B) -SB4- | 5/10/15 A | - Oxygen sensor heater -Z19- Heater for oxygen sensor 1 after catalytic converter -Z29- High temperature circuit coolant pump -V467- 4 Low temperature circuit coolant pump -V468- | 87 |
| F5 | - Fuse 5 (on fuse panel B) -SB5- | 5A 10A/ 20A | - Oxygen sensor heater -Z19- 1 Oxygen sensor 2 heater -Z28- 4 Leak detection pump -V144- Wastegate bypass regulator valve -N75- EGR cooler switch-over valve -N345- Positive crankcase ventilation heating element -N79- Mass airflow sensor -G70- 5 Vacuum pump relay -J318- Brake system vacuum pump -V192- | 87 |
| F6 | - Fuse 6 (on fuse panel B) -SB6- | 5/10/15 A 20A | - Leak detection pump -V144- EVAP canister purge regulator valve 1 -N80- Tank switch-off valve -N288- Secondary air injection pump relay -J299- 4 | 87 |
| F6 | - Fuse 6 (on fuse panel B) -SB6- | 10A 15A | - Water pump -V36- Auxiliary heater heating element -Z35- Relay for low heat output -J359- Relay for high heat output -J360- | 87 |
| F7 | - Fuse 7 (on fuse panel B) -SB7- | 20A | - Ignition coil 1 with power output stage -N70- Ignition coil 2 with power output stage -N127- Ignition coil 3 with power output stage -N291- Ignition coil 4 with power output stage -N292- Ignition coil -N152- | 87 |
| F7 | - Fuse 7 (on fuse panel B) -SB7- | 5A | Fuel pressure regulator valve -N276- 2 Fuel metering valve -N290- 2 | 87 |
| F8 | - Fuse 8 (on fuse panel B) -SB8- | 10A | - Throttle valve control module -J338- Wastegate bypass regulator valve -N75- EVAP canister purge regulator valve 1 -N80- Camshaft adjustment valve 1 -N205- Turbocharger recirculation valve -N249- Intake manifold runner control valve -N316- Exhaust camshaft adjustment valve 1 -N318- 4 Oil pressure regulation valve -N428- 4 Decoupler pressure actuator -N511- 4 Refrigerant cut-off valve -N516- 4 | 87 |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|------------------------|--|----------|
| F9 | - Fuse 9 (on fuse panel B) -SB9- | 5A 15A ¹ | - Automatic glow time control module -J179- Fuel pump relay 2 -J49- Fuel pump relay -J17- Fuel pressure regulator valve -N276- Coolant circulation pump relay -J151- Engine coolant circulation pump 2 -V178- | 87 |
| F10 | - Fuse 10 (on fuse panel B) -SB10- | 5A | - Brake lamp switch -F- ³ Clutch position sensor -G476- Auxiliary engine coolant pump relay -J496- Brake booster relay -J569- ⁴ | 87 |
| F11 | - Fuse 11 (on fuse panel B) -SB11- | | - Not used | |
| F12 | - Fuse 12 (on fuse panel B) -SB12- | 5A | - After-run coolant pump -V50- ¹³ | 87 |
| F13 | - Fuse 13 (on fuse panel B) -SB13- | 5A 20A | - Auxiliary engine coolant pump relay -J496- Water pump -V36- Brake booster relay -J569- ⁴ Brake system vacuum pump -V192- ⁴ | 30a |
| F14 | - Fuse 14 (on fuse panel B) -SB14- | 5A | - Engine control module -J623- Main relay -J271- | 30a |
| F15 | - Fuse 15 (on fuse panel B) -SB15- | 30A | - Voltage stabilizer -J532- | 30a |
| F16 | - Fuse 16 (on fuse panel B) -SB16- | 30A | - ABS control module -J104- | 30a |
| F17 | - Fuse 17 (on fuse panel B) -SB17- | 30A | - DSG transmission Mechatronic -J743- | 30a |
| F18 | - Fuse 18 (on fuse panel B) -SB18- | 20A | - DSG transmission Mechatronic -J743- | 30a |
| F19 | - Fuse 19 (on fuse panel B) -SB19- | 1A | - Vehicle electrical system control module -J519- (T52a/24) AW1, (T73b/59) AW0 | 30a |
| F20 | - Fuse 20 (on fuse panel B) -SB20- | 30A | - Vehicle electrical system control module -J519- (AW0) Wiper/washer intermittent relay -J31- (AW1) Wiper motor change-over relay 1 -J368- (AW1) Wiper motor change-over relay 2 -J369- (AW1) | 30a |
| F21 | - Fuse 21 (on fuse panel B) -SB21- | 50A | - Secondary air injection pump motor -V101- | 87 |
| F22 | - Fuse 22 (on fuse panel B) -SB22- | 40A | - Auxiliary heater heating element -Z35- | 87 |
| F23 | - Fuse 23 (on fuse panel B) -SB23- | 40A | - ABS control module -J104- | 30a |
| F24 | - Fuse 24 (on fuse panel B) -SB24- | 50A | - Towing recognition control module -J345- | 30a |
| F25 | - Fuse 25 (on fuse panel B) -SB25- | 50A | - Terminal 15 power supply relay -J329- Terminal 15 power supply relay 2 -J681- | 30a |
| F26 | - Fuse 26 (on fuse panel B) -SB26- | 50A 40A | - Automatic glow time control module -J179- Secondary air injection pump relay -J299- Secondary air injection pump motor -V101- ⁴ | 30a |
| F27 | - Fuse 27 (on fuse panel B) -SB27- | 50A | - Coolant fan -V7- | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|---|----------|
| F28 | - Fuse 28 (on fuse panel B) -SB28- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F29 | - Fuse 29 (on fuse panel B) -SB29- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F30 | - Fuse 30 (on fuse panel B) -SB30- | 50A | - Terminal 75 power supply relay 1 -J680- | 30a |
| F31 | - Fuse 31 (on fuse panel B) -SB31- | 30A | - Amplifier -R12- | 30a |
| F32 | - Fuse 32 (on fuse panel B) -SB32- | 40A | - Auxiliary heater heating element -Z35- | 87 |

¹ only for ULEV 2 - (7GB) exhaust system

² Only models with diesel engine

³ Only for vehicles with DSG transmission

⁴ Engine code CNLA

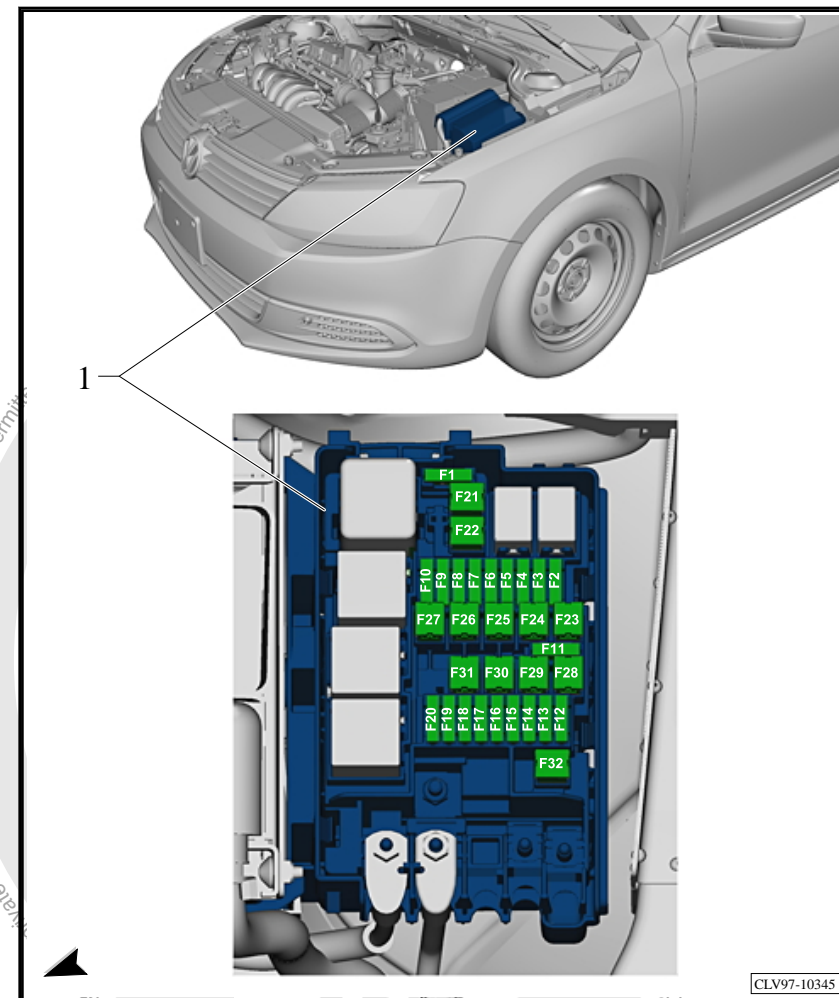
⁵ Engine code CFFB

¹³) Not for Hybrid application

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1.8 Fuse (SB) on E-box, from MY 2014

1 - Fuse panel B -SB-



| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|--|----------|
| F1 | - Fuse 1 (on fuse panel B) -SB1- | | - Not used | - |
| F2 | - Fuse 2 (on fuse panel B) -SB2- | 15/20A | - Engine control module -J623- Engine component power supply relay -J757- | 87 |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|---|----------|
| F3 | - Fuse 3 (on fuse panel B) -SB3- | 10A | - Coolant fan control module -J293- Relay for low heat output -J359- Relay for high heat output -J360- | 87 |
| F4 | - Fuse 4 (on fuse panel B) -SB4- | 15A | - Oxygen sensor heater -Z19- Heater for oxygen sensor 1 after catalytic converter -Z29- High temperature circuit coolant pump -V467- ³ Low temperature circuit coolant pump -V468- | 87 |
| F5 | - Fuse 5 (on fuse panel B) -SB5- | 15A | - Oxygen sensor heater -Z19- ¹ Oxygen sensor 2 heater -Z28- ³ Leak detection pump -V144- Wastegate bypass regulator valve -N75- EGR cooler switch-over valve -N345- Positive crankcase ventilation heating element -N79- Mass airflow sensor -G70- ⁴ Vacuum pump relay -J318- Brake system vacuum pump -V192- | 87 |
| F6 | - Fuse 6 (on fuse panel B) -SB6- | 10A | - Leak detection pump -V144- EVAP canister purge regulator valve 1 -N80- Tank switch-off valve -N288- Secondary air injection pump relay -J299- ¹ Water pump -V36- Auxiliary heater heating element -Z35- Low heat output relay -J359- High heat output relay -J360- | 87 |
| F7 | - Fuse 7 (on fuse panel B) -SB7- | 15/20/30A | - Ignition coil 1 with power output stage -N70- Ignition coil 2 with power output stage -N127- Ignition coil 3 with power output stage -N291- Ignition coil 4 with power output stage -N292- Ignition coil -N152- | 87 |
| F7 | - Fuse 7 (on fuse panel B) -SB7- | 5A | - Fuel pressure regulator valve -N276- ² Fuel metering valve -N290- ² | 87 |
| F8 | - Fuse 8 (on fuse panel B) -SB8- | 5/10A | - Throttle valve control module -J338- Wastegate bypass regulator valve -N75- EVAP canister purge regulator valve 1 -N80- Camshaft adjustment valve 1 -N205- Turbocharger recirculation valve -N249- Intake manifold runner control valve -N316- Exhaust camshaft adjustment valve 1 -N318- ³ Oil pressure regulation valve -N428- ³ Decoupler pressure actuator -N511- ³ Refrigerant cut-off valve -N516- ³ | 87 |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|------------------------|---|----------|
| F9 | Fuse 9 (on fuse panel B) -SB9- | 5A 15A ¹ | - Secondary air injection sensor 1 -G609- - Secondary air injection sensor 2 -G610- - Automatic glow time control module -J179- - Fuel pump relay 2 -J49- - Fuel pump relay -J17- - EVAP canister purge regulator valve 1 -N80- - Camshaft adjustment valve 1 -N205- - Fuel pressure regulator valve -N276- - After-run coolant pump -V51- - Coolant circulation pump relay -J151- - Engine coolant circulation pump 2 -V178- | 87 |
| F10 | Fuse 10 (on fuse panel B) -SB10- | 5A | - Brake lamp switch -F- - Clutch position sensor -G476- - Auxiliary engine coolant pump relay -J496- - Brake booster relay -J569- ³ | 87 |
| F11 | Fuse 11 (on fuse panel B) -SB11- | | - Not used | |
| F12 | Fuse 12 (on fuse panel B) -SB12- | 5/30A | - Ignition coil 1 with power output stage -N70- - Ignition coil 2 with power output stage -N127- - Ignition coil 3 with power output stage -N291- - Ignition coil 4 with power output stage -N292- - After-run coolant pump -V50- ¹³ | 87 |
| F13 | Fuse 13 (on fuse panel B) -SB13- | 10A 30A | - Auxiliary engine coolant pump relay -J496- - Water pump -V36- - Brake booster relay -J569- ³ - Brake system vacuum pump -V192- ³ | 30a |
| F14 | Fuse 14 (on fuse panel B) -SB14- | 10A | - Engine control module -J623- - Main relay -J271- | 30a |
| F15 | Fuse 15 (on fuse panel B) -SB15- | 30A | - Voltage stabilizer -J532- | 30a |
| F16 | Fuse 16 (on fuse panel B) -SB16- | 30A | - ABS control module -J104- | 30a |
| F17 | Fuse 17 (on fuse panel B) -SB17- | 15/30A | - DSG transmission Mechatronic -J743- | 30a |
| F18 | Fuse 18 (on fuse panel B) -SB18- | 15A | - DSG transmission Mechatronic -J743- | 30a |
| F19 | Fuse 19 (on fuse panel B) -SB19- | 5A | - Vehicle electrical system control module -J519- (T52a/24) AW1, (T73b/59) AW0 | 30a |
| F20 | Fuse 20 (on fuse panel B) -SB20- | 30A | - Vehicle electrical system control module -J519- (AW0) - Wiper/washer intermittent relay -J31- (AW1) - Wiper motor change-over relay 1 -J368- (AW1) - Wiper motor change-over relay 2 -J369- (AW1) | 30a |
| F21 | Fuse 21 (on fuse panel B) -SB21- | 40/50A | - Secondary air injection pump motor -V101- | 87 |
| F22 | Fuse 22 (on fuse panel B) -SB22- | 40A | - Auxiliary heater heating element -Z35- | 87 |
| F23 | Fuse 23 (on fuse panel B) -SB23- | 40A | - ABS control module -J104- | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|--|----------|
| F24 | - Fuse 24 (on fuse panel B) -SB24- | 50A | - Towing recognition control module -J345- | 30a |
| F25 | - Fuse 25 (on fuse panel B) -SB25- | 50A | - Terminal 15 power supply relay -J329- Terminal 15 power supply relay 2 -J681- | 30a |
| F26 | - Fuse 26 (on fuse panel B) -SB26- | 50A 40A | - Automatic glow time control module -J179- Secondary air injection pump relay -J299- Secondary air injection pump motor -V101- ³ | 30a |
| F27 | - Fuse 27 (on fuse panel B) -SB27- | 50A | - Coolant fan -V7- | 30a |
| F28 | - Fuse 28 (on fuse panel B) -SB28- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F29 | - Fuse 29 (on fuse panel B) -SB29- | 40A | - Vehicle electrical system control module -J519- (AW1) | 30a |
| F30 | - Fuse 30 (on fuse panel B) -SB30- | 50A | - Terminal 75 power supply relay 1 -J680- | 30a |
| F31 | - Fuse 31 (on fuse panel B) -SB31- | 40A | - Amplifier -R12- | 30a |
| F32 | - Fuse 32 (on fuse panel B) -SB32- | 40A | - Auxiliary heater heating element -Z35- | 87 |

¹ only for ULEV 2 - (7GB) exhaust system

² Only models with diesel engine

³ Engine codes CNLA, CRJA

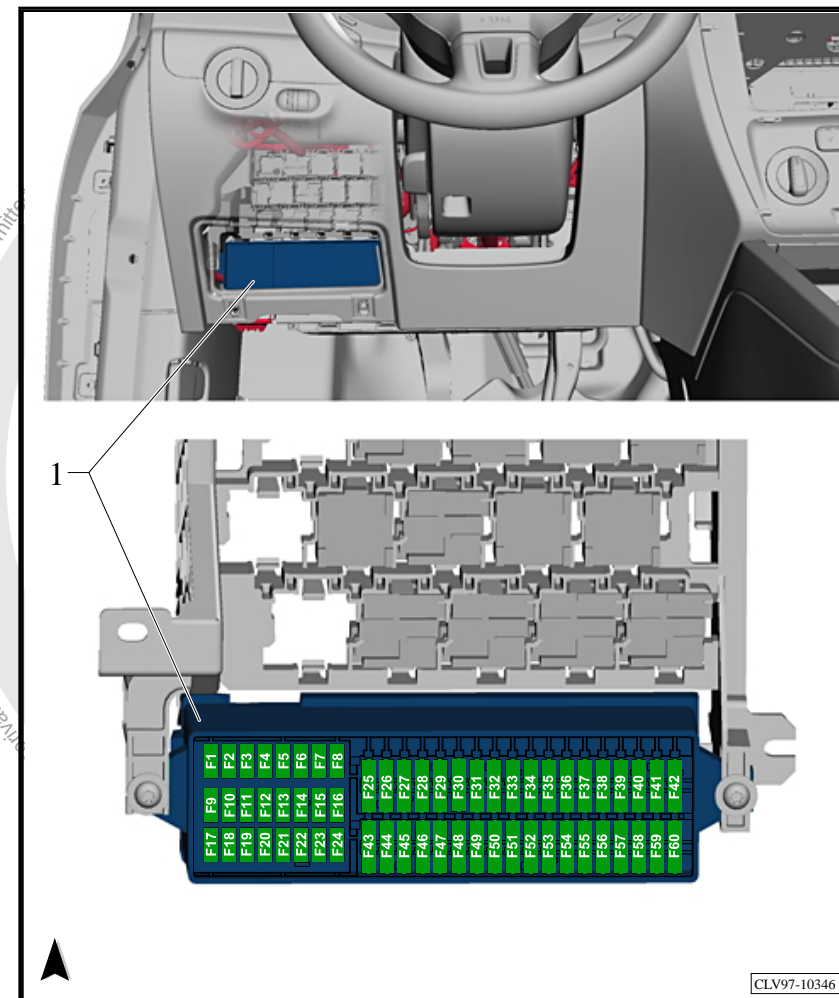
⁴ Engine code CFFB

¹³⁾ Not for Hybrid application

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1.9 Fuse (SC), from MY 2011

1 - Fuse panel C -SC-



| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|---|----------|
| F1 | - Fuse 1 (on fuse panel C) -SC1- | - | - Not used | - |
| F2 | - Fuse 2 (on fuse panel C) -SC2- | 5A | - Electronic steering column lock control module -J764- | 30a |
| F3 | - Fuse 3 (on fuse panel C) -SC3- | 10A | - Instrument cluster control module -J285- , (T32/32) | 30a |
| F4 | - Fuse 4 (on fuse panel C) -SC4- | - | - Not used | - |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|---|----------|
| F5 | - Fuse 5 (on fuse panel C) -SC5- | - | - Not used | - |
| F6 | - Fuse 6 (on fuse panel C) -SC6- | 10A | - Vehicle electrical system control module -J519- , (T73a/66) (AW0 only) | 30a |
| F7 | - Fuse 7 (on fuse panel C) -SC7- | 5A | - Fog lamp relay -J5- , (AW0 only) Instrument panel and switch illumination dimmer switch -E20- , (AW0 only) License plate lamp -X- Vehicle electrical system control module -J519- , (T52c/27) (AW1 only) | 58 |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | 7.5A | - Windshield and headlamp washer pump switch -E44- , (AW0 only) Windshield washer pump -V5- , (AW0 only) | 15a |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | - | - not used, (AW1 only) | - |
| F9 | - Fuse 9 (on fuse panel C) -SC9- | 5A | - Airbag control module Airbag Control Module -J234- | 15a |
| F10 | - Fuse 10 (on fuse panel C) -SC10- | 10A | - Right steering column switch -EX20- , (AW0 only) | 15a |
| F11 | - Fuse 11 (on fuse panel C) -SC11- | - | - Not used | - |
| F12 | - Fuse 12 (on fuse panel C) -SC12- | - | - Not used | - |
| F13 | - Fuse 13 (on fuse panel C) -SC13- | 5A | - Automatic dimming interior rearview mirror -Y7- Light recognition sensor -G399- Parking aid control module -J446- Air quality sensor -G238- High pressure sensor -G65- Climatronic control module -J255- Tire pressure monitoring button -E226- Back-up lamp switch -F4- Left washer nozzle heater -Z20- Right washer nozzle heater -Z21- 28-pin connector -T28- , (T28/10) | 15a |
| F14 | - Fuse 14 (on fuse panel C) -SC14- | 10A | - Left steering column switch -EX19- ABS control module -J104- Light switch -E1- , (T10h/4) (AW1 only) Airbag spiral spring/return spring with slip ring -F138- Fuel pump control module -J538- Data bus on board diagnostic interface -J533- , (AW1 only) | 15a |
| F15 | - Fuse 15 (on fuse panel C) -SC15- | 10A | - 16-pin connector -T16- , (diagnostic connection) Instrument panel and switch illumination dimmer switch -E20- Headlamp range control adjuster -E102- , (AW1 only) Auxiliary heater operation relay -J485- Mass airflow sensor -G70- Positive crankcase ventilation heating element -N79- Left front headlamp -MX1- Left headlamp beam adjustment motor -V48- Right front headlamp -MX2- Right headlamp beam adjustment motor -V49- | 15a |
| F16 | - Fuse 16 (on fuse panel C) -SC16- | 10A | - Engine control module -J623- | 15a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|--|----------|
| F17 | - Fuse 17 (on fuse panel C) -SC17- | - | - Not used | |
| F18 | - Fuse 18 (on fuse panel C) -SC18- | 15A | - Left front headlamp -MX1- | 56b |
| F19 | - Fuse 19 (on fuse panel C) -SC19- | 15A | - Right front headlamp -MX2- | 56b |
| F20 | - Fuse 20 (on fuse panel C) -SC20- | 10A | - Automatic transmission control module -J217- Selector lever sensor system control module -J587- tiptronic switch -F189- Climatronic control module -J255- Ignition/starter switch -D- | 30a |
| F21 | - Fuse 21 (on fuse panel C) -SC21- | - | - Not used | - |
| F22 | - Fuse 22 (on fuse panel C) -SC22- | 10A | - Ignition/starter switch -D- Converter box -J935- Alarm horn -H12- Interior monitoring sensor -G273- Alarm horn relay -J641- Dual tone horn relay -J4- | 30a |
| F23 | - Fuse 23 (on fuse panel C) -SC23- | 10A | - Vehicle electrical system control module -J519- , (T73b/39) (AW0 only) 16-pin connector -T16- , (diagnostic connection) Light switch -E1- , (AW1 only) Rain/light recognition sensor -G397- Compass magnetic field sensor -G197- | 30a |
| F24 | - Fuse 24 (on fuse panel C) -SC24- | 10A | - Vehicle electrical system control module -J519- , (T73a/64) (AW0 only) Access/start authorization control module -J518- | 30a |
| F25 | - Fuse 25 (on fuse panel C) -SC25- | 15A | - Automatic transmission control module -J217- Selector lever sensor system control module -J587- Multifunction switch -F125- | 15a |
| F26 | - Fuse 26 (on fuse panel C) -SC26- | 15A | - Brake system vacuum pump -V192- | 15a |
| F27 | - Fuse 27 (on fuse panel C) -SC27- | - | - Not used | - |
| F28 | - Fuse 28 (on fuse panel C) -SC28- | 40A | - Auxiliary heater operation relay -J485- | 75a |
| F29 | - Fuse 29 (on fuse panel C) -SC29- | 1A | - Vehicle electrical system control module -J519- , (T73b/51) (AW0 only) | - |
| F30 | - Fuse 30 (on fuse panel C) -SC30- | 20A | - Cigarette lighter -U1- 12 V socket -U5- 12 V socket 2 -U18- Blocking diode -J29- | 75a |
| F31 | - Fuse 31 (on fuse panel C) -SC31- | 30A | - Light switch -E1- , (T17/1) (AW0 only) | 75a |
| F32 | - Fuse 32 (on fuse panel C) -SC32- | 20A | - Light switch -E1- , (T17/2) (AW0 only) | 75a |
| F33 | - Fuse 33 (on fuse panel C) -SC33- | 40A | - Heater/heat output switch -E16- Fresh air blower relay -J13- A/C control module -J301- Fresh air blower switch -E9- | 75a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|--|----------|
| F34 | - Fuse 34 (on fuse panel C) -SC34- | 15A | - Left front headlamp -MX1- Instrument cluster control module -J285- | 56a |
| F35 | - Fuse 35 (on fuse panel C) -SC35- | 10A | - Steering column electronics control module -J527- Instrument cluster control module -J285- Signal horn activation -H- Data bus on board diagnostic interface -J533- | 30a |
| F36 | - Fuse 36 (on fuse panel C) -SC36- | 25A | - Vehicle electrical system control module -J519- , (T73a/16) (AW0 only), (T52b/1) (AW1 only) | 30a |
| F37 | - Fuse 37 (on fuse panel C) -SC37- | 15A | - Left front headlamp -MX1- | TFL |
| F38 | - Fuse 38 (on fuse panel C) -SC38- | 15A | - Right front headlamp -MX2- | TFL |
| F39 | - Fuse 39 (on fuse panel C) -SC39- | 15A | - Low beam relay -J331- | 56b |
| F40 | - Fuse 40 (on fuse panel C) -SC40- | 15A | - Towing recognition control module -J345- | 30a |
| F41 | - Fuse 41 (on fuse panel C) -SC41- | 15A | - Towing recognition control module -J345- | 30a |
| F42 | - Fuse 42 (on fuse panel C) -SC42- | 20A | - Towing recognition control module -J345- | 30a |
| F43 | - Fuse 43 (on fuse panel C) -SC43- | 30A | - Front passenger door control module -J387- Control Module for Emergency Call Module and Communication Unit -J949- for vehicle w/o Start/Stop system | 30a |
| F44 | - Fuse 44 (on fuse panel C) -SC44- | 25A | - Rear window defogger relay -J9- , (AW1 only) Vehicle electrical system control module -J519- , (T73b/67) (AW0 only) | 30a |
| F45 | - Fuse 45 (on fuse panel C) -SC45- | 25A | - Driver door control module -J386- Front passenger door control module -J387- 1 | 30a |
| F46 | - Fuse 46 (on fuse panel C) -SC46- | 25A | - Left rear door control module -J388- Right rear door control module -J389- | 30a |
| F47 | - Fuse 47 (on fuse panel C) -SC47- | 15A | - Fuel pump control module -J538- Fuel pump relay -J17- Fuel primer relay -J643- | 30a |
| F48 | - Fuse 48 (on fuse panel C) -SC48- | 20A | - Vehicle electrical system control module -J519- , (T52b/42) (AW1 only) Vehicle electrical system control module -J519- , (T73b/11) (AW0 only) Vehicle electrical system control module -J519- , (T73b/13) (AW0 only) | 30a |
| F49 | - Fuse 49 (on fuse panel C) -SC49- | 40A | - Climatronic control module -J255- A/C control module -J301- | 30 |
| F50 | - Fuse 50 (on fuse panel C) -SC50- | 30A | - Front seat heating control module -J774- | 30a |
| F51 | - Fuse 51 (on fuse panel C) -SC51- | 20A | - Sunroof control module -J245- | 30a |
| F52 | - Fuse 52 (on fuse panel C) -SC52- | 20A | - Dual tone horn relay -J4- | 30a |
| F53 | - Fuse 53 (on fuse panel C) -SC53- | 15A | - Front seat heating control module -J774- | 30 |
| F54 | - Fuse 54 (on fuse panel C) -SC54- | 15A | - Fog lamp relay -J5- | 55 |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|---|----------|
| F55 | - Fuse 55 (on fuse panel C) -SC55- | 20A | - Light switch -E1- , (T16ls/10) (AW0 only) Left steering column switch -EX19- , (T17/15) (AW0 only) | 30 |
| F56 | - Fuse 56 (on fuse panel C) -SC56- | - | - Not used | - |
| F57 | - Fuse 57 (on fuse panel C) -SC57- | 15A | - Radio -R- Radio/Navigation Display Control Module -J503- | 30a |
| F58 | - Fuse 58 (on fuse panel C) -SC58- | 1A 30A | - Telephone Transceiver -R36- ² Converter with socket, 12 V-230 V -U13- | 30a |
| F59 | - Fuse 59 (on fuse panel C) -SC59- | 30A | - Amplifier -R12- | - |
| F60 | - Fuse 60 (on fuse panel C) -SC60- | 30A | - Auxiliary heater control module -J364- Auxiliary heater heating element -Z35- | 30a |

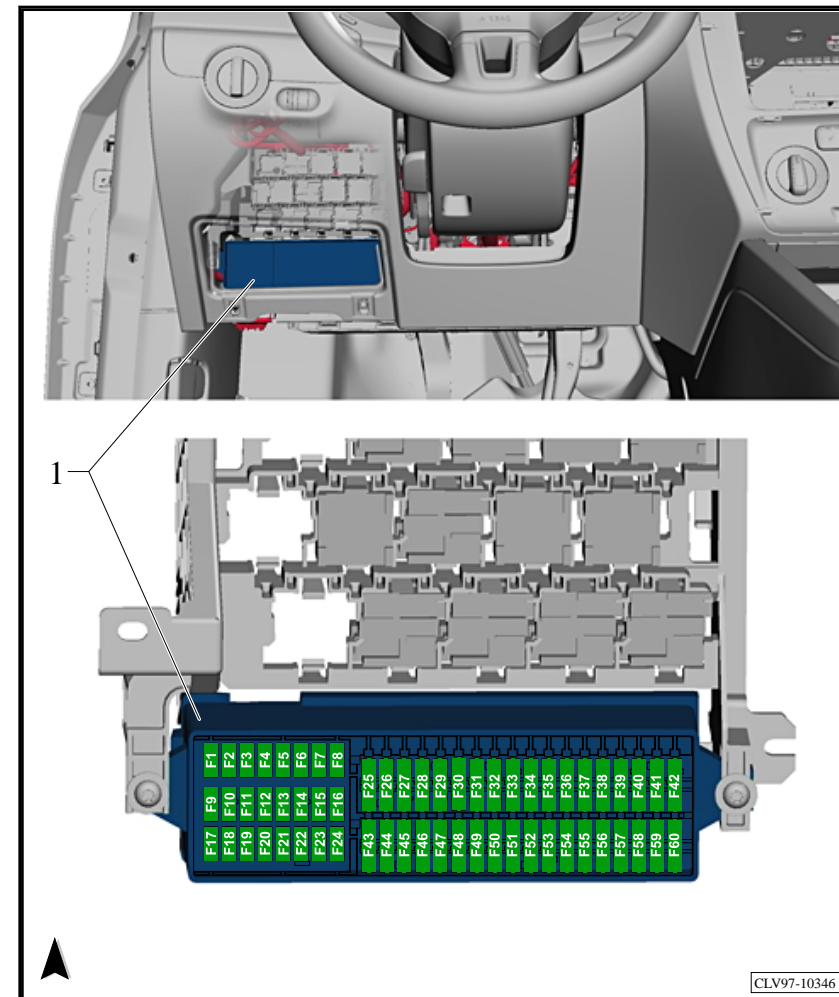
¹ Depending on equipment

² Discontinued as a running change

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1.10 Fuse (SC), from MY 2012

1 - Fuse panel C -SC-



| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|---|--------------------------|
| F1 | - Fuse 1 (on fuse panel C) -SC1- | - | - Not used | - |
| F2 | - Fuse 2 (on fuse panel C) -SC2- | 5A | - Electronic steering column lock control module -J764- | 30a |
| F3 | - Fuse 3 (on fuse panel C) -SC3- | 10A | - Instrument cluster control module -J285- , (T32/32) | 30a/ 30 stabilized |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|--|------------------|
| F4 | - Fuse 4 (on fuse panel C) -SC4- | 2A | - Telephone Transceiver -R36- | 30a |
| F4 | - Fuse 4 (on fuse panel C) -SC4- | 10A | - Telephone Transceiver -R36- Compass magnetic field sensor -G197- 4 | 30 stabilized |
| F5 | - Fuse 5 (on fuse panel C) -SC5- | 7.5A | - Left rear fog lamp bulb -L46- | 55a |
| F6 | - Fuse 6 (on fuse panel C) -SC6- | 10A | - Vehicle electrical system control module -J519- , (T73a/66) (interior lamp, AW0 only) | 30a |
| F7 | - Fuse 7 (on fuse panel C) -SC7- | 5A | - Fog lamp relay -J5- , (AW0 only) ¹ Instrument panel and switch illumination dimmer switch -E20- , (AW0 only) License plate lamp -X- Vehicle electrical system control module -J519- , (T52c/27), (AW1 only) | 58 |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | 7.5A | - Windshield and headlamp washer pump switch -E44- , (AW0 only) Windshield washer pump -V5- , (AW0 only) Vehicle electrical system control module -J519- , (T73b/61), (AW0 only) | 53c |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | - | - not used, (AW1 only) | - |
| F9 | - Fuse 9 (on fuse panel C) -SC9- | 5A | - Airbag control module Airbag Control Module -J234- Passenger occupant detection system control module -J706- | 15a |
| F10 | - Fuse 10 (on fuse panel C) -SC10- | 10A | - Right steering column switch -EX20- , (T10Is/3), (AW0 only) | 15a |
| F11 | - Fuse 11 (on fuse panel C) -SC11- | 10A | - Left front headlamp -MX1- , (HID headlamp) | 15a |
| F12 | - Fuse 12 (on fuse panel C) -SC12- | 10A | - Right front headlamp -MX2- , (HID headlamp) | 15a |
| F13 | - Fuse 13 (on fuse panel C) -SC13- | 5A | - Automatic dimming interior rearview mirror -Y7- Light recognition sensor -G399- Parking aid control module -J446- Air quality sensor -G238- High pressure sensor -G65- Climatronic control module -J255- Tire pressure monitoring button -E226- ASR/ESP button -E256- Back-up lamp switch -F4- Start/Stop mode switch -E262- Left washer nozzle heater -Z20- Right washer nozzle heater -Z21- 28-pin connector -T28- , (T28/10): Mirror adjusting switch -E43- Exterior rearview mirror heating switch -E231- Headlamp range/cornering lamp control module -J745- | 15a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|---|----------|
| F14 | Fuse 14 (on fuse panel C) -SC14- | 10A | - Left steering column switch -EX19- , (T16ls/1), (AW0 only) - ABS control module -J104- , T26/20 / T47/8) - Light switch -E1- , (T10h/4) (AW1 only) - Airbag spiral spring/return spring with slip ring -F138- , (T16k/14) - Fuel pump control module -J538- - Towing recognition control module -J345- , (T12a/2) - Voltage stabilizer -J532- - Converter with socket, 12 V-230 V -U13- , (T3wr/3) - Data bus on board diagnostic interface -J533- , (AW1 only) | 15a |
| F15 | Fuse 15 (on fuse panel C) -SC15- | 10A | - 16-pin connector -T16- , (diagnostic connection) - Instrument panel and switch illumination dimmer switch -E20- - Headlamp range control adjuster -E102- , (AW1 only) - Fresh air blower relay -J13- - Mass airflow sensor -G70- - Positive crankcase ventilation heating element -N79- - Structure borne sound control module -J869- - Left front headlamp -MX1- - Left headlamp beam adjustment motor -V48- - Right front headlamp -MX2- - Right headlamp beam adjustment motor -V49- | 15a |
| F16 | Fuse 16 (on fuse panel C) -SC16- | 10A | - Auxiliary engine coolant pump relay -J496- - Engine control module -J623- | 15a |
| F17 | Fuse 17 (on fuse panel C) -SC17- | 10A | - Anti-theft alarm system horn ² - Anti-theft alarm system interior sensor ² - Anti-theft alarm system alarm ² | 30a |
| F18 | Fuse 18 (on fuse panel C) -SC18- | 15A | - Left front headlamp -MX1- - Left low beam headlamp bulb -M29- ³ | 56b |
| F19 | Fuse 19 (on fuse panel C) -SC19- | 15A | - Right front headlamp -MX2- - Right low beam headlamp bulb -M31- ³ | 56b |
| F20 | Fuse 20 (on fuse panel C) -SC20- | 10A | - Ignition/starter switch -D- , (T10/10), (AW0 only) - Tiptronic switch -F189- - Automatic transmission control module -J217- - Selector lever sensor system control module -J587- - Climatronic control module -J255- - Auxiliary engine coolant heater radio frequency receiver -R149- | 30a |
| F21 | Fuse 21 (on fuse panel C) -SC21- | 15/ 20A | - Vehicle electrical system control module -J519- , (T73a/73), (AW0 only) - Dual tone horn relay -J4- , (AW1 only) - High tone horn -H2- - Low tone horn -H7- | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|---|----------|
| F22 | Fuse 22 (on fuse panel C) -SC22- | 20A 7.5A | - Ignition/starter switch -D- , (AW0 only) Converter box -J935- , (AW0 only) Interior monitoring sensor -G273- Alarm horn relay -J641- Alarm horn -H12- | 30a |
| F23 | Fuse 23 (on fuse panel C) -SC23- | 10A | - Vehicle electrical system control module -J519- , (T73b/39) (AW0 only) 16-pin connector -T16- , (diagnostic connection) Light switch -E1- , (AW1 only) Rain/light recognition sensor -G397- Compass magnetic field sensor -G197- ⁵ | 30a |
| F24 | Fuse 24 (on fuse panel C) -SC24- | 10A | - Vehicle electrical system control module -J519- , (T73a/64) (AW0 only) Access/start authorization control module -J518- | 30a |
| F25 | Fuse 25 (on fuse panel C) -SC25- | 15A | - Automatic transmission control module -J217- Selector lever sensor system control module -J587- Multifunction switch -F125- | 15a |
| F26 | Fuse 26 (on fuse panel C) -SC26- | 15A | - Brake system vacuum pump -V192- | 15a |
| F27 | Fuse 27 (on fuse panel C) -SC27- | 1A | - Airbag spiral spring/return spring with slip ring -F138- , (T16k/1) | 15a |
| F28 | Fuse 28 (on fuse panel C) -SC28- | 40A | - Auxiliary heater operation relay -J485- | 75a |
| F29 | Fuse 29 (on fuse panel C) -SC29- | 1A | - Vehicle electrical system control module -J519- , (T73b/51) (AW0 only) Ignition/starter switch -D- , (AW0 only) Converter box -J935- , (AW0 only) | - |
| F30 | Fuse 30 (on fuse panel C) -SC30- | 20A | - Cigarette lighter -U1- 12 V socket -U5- 12 V socket 2 -U18- Blocking diode -J29- | 75a |
| F31 | Fuse 31 (on fuse panel C) -SC31- | 30A | - Light switch -E1- , (T17/1) (AW0 only) | 75a |
| F32 | Fuse 32 (on fuse panel C) -SC32- | 20A | - Light switch -E1- , (T17/2) (AW0 only) | 75a |
| F33 | Fuse 33 (on fuse panel C) -SC33- | 40A | - Heater/heat output switch -E16- Fresh air blower relay -J13- A/C control module -J301- Fresh air blower switch -E9- | 75a |
| F34 | Fuse 34 (on fuse panel C) -SC34- | 15A | - Left high beam headlamp bulb -M30- (AW0 only) Right high beam headlamp bulb -M32- (AW0 only) Instrument cluster control module -J285- (-K1-, AW0 only) | 56a |
| F35 | Fuse 35 (on fuse panel C) -SC35- | 10A | - Steering column electronics control module -J527- , (AW1 only) Data bus on board diagnostic interface -J533- , (AW1 only) Signal horn activation -H- | 30a |
| F36 | Fuse 36 (on fuse panel C) -SC36- | 25A | - Vehicle electrical system control module -J519- , (T73a/16)(AW0 only), (T52b/1)(AW1 only) Vehicle electrical system control module -J519- , (T73a/61)(AW0 only) ² | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|--------------------------|--|----------|
| F37 | Fuse 37 (on fuse panel C) -SC37- | 15A | Left front headlamp -MX1- Left daytime running lamp bulb -L174- | TFL |
| F38 | Fuse 38 (on fuse panel C) -SC38- | 15A | Right front headlamp -MX2- Right daytime running lamp bulb -L175- | TFL |
| F39 | Fuse 39 (on fuse panel C) -SC39- | 20A | Low beam relay -J331- | 56b |
| F40 | Fuse 40 (on fuse panel C) -SC40- | 15A | Towing recognition control module -J345- , (T12a/9) | 30a |
| F41 | Fuse 41 (on fuse panel C) -SC41- | 15A | Towing recognition control module -J345- , (T12a/12) | 30a |
| F42 | Fuse 42 (on fuse panel C) -SC42- | 20A | Towing recognition control module -J345- , (T12a/11) | 30a |
| F43 | Fuse 43 (on fuse panel C) -SC43- | 30A | Front passenger door control module -J387- Control Module for Emergency Call Module and Communication Unit -J949- for vehicle w/o Start/Stop system | 30a |
| F44 | Fuse 44 (on fuse panel C) -SC44- | 25A | Rear window defogger relay -J9- , (AW1 only) Rear window defogger -Z1- Vehicle electrical system control module -J519- , (T73b/67) (AW0 only) | 30a |
| F45 | Fuse 45 (on fuse panel C) -SC45- | 30A | Driver door control module -J386- Front passenger door control module -J387- ³ | 30a |
| F46 | Fuse 46 (on fuse panel C) -SC46- | 30A | Left rear door control module -J388- Right rear door control module -J389- Front Passenger Door Control Module -J387- | 30a |
| F47 | Fuse 47 (on fuse panel C) -SC47- | 15A | Fuel pump control module -J538- Fuel pump relay -J17- Fuel primer relay -J643- | 30a |
| F48 | Fuse 48 (on fuse panel C) -SC48- | 20A | Vehicle electrical system control module -J519- , (T52b/42) (AW1 only) Vehicle electrical system control module -J519- , (T73b/11) (AW0 only) Vehicle electrical system control module -J519- , (T73b/13) (AW0 only) | 30a |
| F49 | Fuse 49 (on fuse panel C) -SC49- | 40A | Climatronic control module -J255- A/C control module -J301- | 30 |
| F50 | Fuse 50 (on fuse panel C) -SC50- | 30A | Front seat heating control module -J774- | 30a |
| F51 | Fuse 51 (on fuse panel C) -SC51- | 20A | Sunroof control module -J245- | 30a |
| F52 | Fuse 52 (on fuse panel C) -SC52- | 20A | Dual tone horn relay -J4- | 30a |
| F53 | Fuse 53 (on fuse panel C) -SC53- | 15A | Front seat heating control module -J774- | 30 |
| F54 | Fuse 54 (on fuse panel C) -SC54- | 15A | Fog lamp relay -J5- | 55 |
| F55 | Fuse 55 (on fuse panel C) -SC55- | 20A | Light switch -E1- , (T17/15) (AW0 only) Left steering column switch -EX19- , (T16ls/10) (AW0 only) | 30 |
| F56 | Fuse 56 (on fuse panel C) -SC56- | - | Not used | - |
| F57 | Fuse 57 (on fuse panel C) -SC57- | 15A/ 20A ³ | Radio -R- Radio/Navigation Display Control Module -J503- | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|---|----------|
| F58 | - Fuse 58 (on fuse panel C) -SC58- | 30A | - Converter with socket, 12 V-230 V -U13- | 30a |
| F59 | - Fuse 59 (on fuse panel C) -SC59- | 30A | - Amplifier -R12- | 30 |
| F60 | - Fuse 60 (on fuse panel C) -SC60- | 30A | - Auxiliary heater control module -J364- | 30a |

¹ Depending on equipment

² Running change

³ Only for vehicles with China equipment

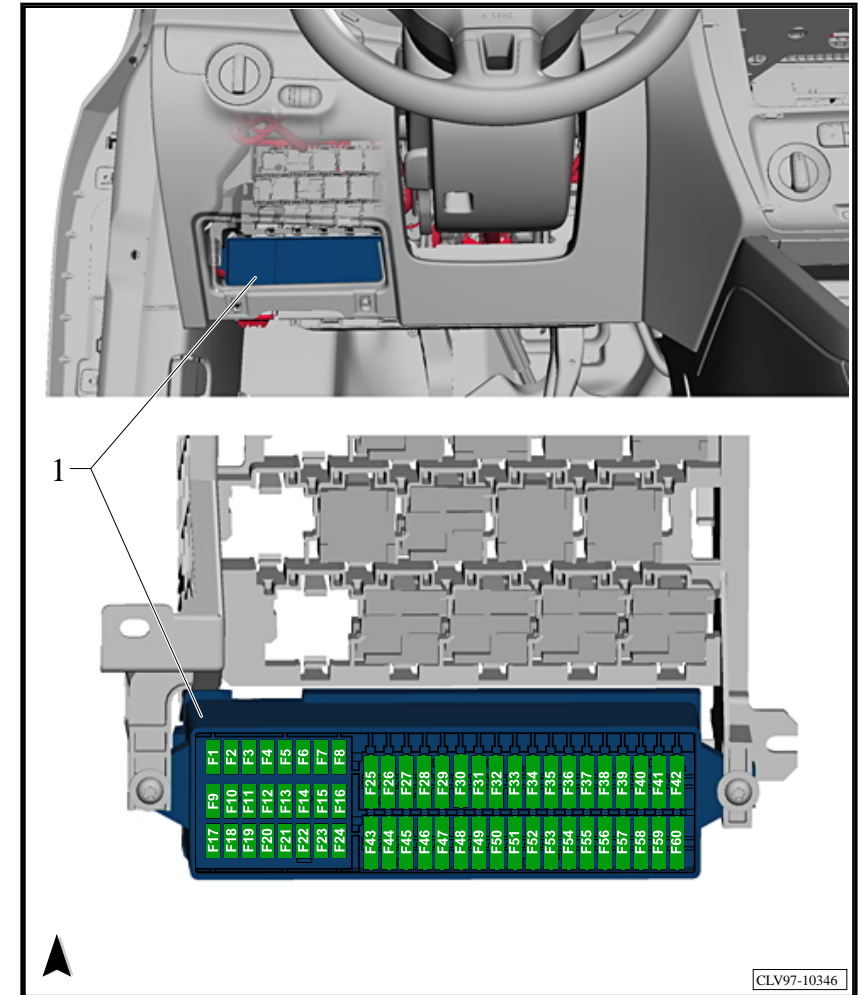
⁴ only for vehicles equipped with Start/Stop

⁵ only for vehicles without Start/Stop

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1.11 Fuse (SC), from MY 2013

1 - Fuse panel C -SC-



| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|-------------------|--|--------------------------|
| F1 | - Fuse 1 (on fuse panel C) -SC1- | - | - Not used | - |
| F2 | - Fuse 2 (on fuse panel C) -SC2- | 7,5A ⁷ | - Electronic steering column lock control module -J764- (T16v/2) | 30a |
| F3 | - Fuse 3 (on fuse panel C) -SC3- | 10A | - Instrument cluster control module -J285- , (T32/32) | 30a/ 30 stabilized |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|--------------------|---|----------|
| F4 | - Fuse 4 (on fuse panel C) -SC4- | 2/10A ⁴ | - Telephone Transceiver -R36- Compass magnetic field sensor -G197- ⁴ | 30a |
| F5 | - Fuse 5 (on fuse panel C) -SC5- | 7.5A | - Left rear fog lamp bulb -L46- | 55a |
| F6 | - Fuse 6 (on fuse panel C) -SC6- | 10A | - Vehicle electrical system control module -J519- , (T73a/66) (interior lamp, AW0 only) Rearview camera -R189- | 30a |
| F7 | - Fuse 7 (on fuse panel C) -SC7- | 5A | - Fog lamp relay -J5- , (AW0 only) ¹ Instrument panel and switch illumination dimmer switch -E20- , (AW0 only) License plate lamp -X- Vehicle electrical system control module -J519- , (T52c/27), (AW1 only) | 58 |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | 7.5A | - Windshield and headlamp washer pump switch -E44- , (AW0 only) Windshield washer pump -V5- , (AW0 only) Vehicle electrical system control module -J519- , (T73b/61), (AW0 only) | 53c |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | - | - not used, (AW1 only) | - |
| F9 | - Fuse 9 (on fuse panel C) -SC9- | 5A | - Airbag control module Airbag Control Module -J234- Front passenger airbag -disabled- indicator lamp -K145- Passenger occupant detection system control module -J706- | 15a |
| F10 | - Fuse 10 (on fuse panel C) -SC10- | 10A | - Right steering column switch -EX20- , (T10Is/3), (AW0 only) | 15a |
| F11 | - Fuse 11 (on fuse panel C) -SC11- | 10A | - Left front headlamp -MX1- , (HID headlamp) | 15a |
| F12 | - Fuse 12 (on fuse panel C) -SC12- | 10A | - Right front headlamp -MX2- , (HID headlamp) | 15a |
| F13 | - Fuse 13 (on fuse panel C) -SC13- | 5A | - Automatic dimming interior rearview mirror -Y7- Light recognition sensor -G399- Parking aid control module -J446- Air quality sensor -G238- High pressure sensor -G65- Climatronic control module -J255- Tire pressure monitoring button -E226- ASR/ESP button -E256- Back-up lamp switch -F4- Start/Stop mode switch -E262- Left washer nozzle heater -Z20- Right washer nozzle heater -Z21- 28-pin connector -T28- , (T28/10) Mirror adjusting switch -E43- Exterior rearview mirror heating switch -E231- A/C compressor control module -J842- (T14hy/14) ⁶ Cornering lamp and headlamp range control module -J745- | 15a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|--|----------|
| F14 | Fuse 14 (on fuse panel C) -SC14- | 10A | <ul style="list-style-type: none"> Left steering column switch -EX19- , (T16ls/1), (AW0 only) ABS control module -J104- , T26/20 / T47/8) Light switch -E1- , (T10h/4) (AW1 only) Airbag spiral spring/return spring with slip ring -F138- , (T16k/14) Fuel pump control module -J538- Towing recognition control module -J345- , (T12a/2) Voltage stabilizer -J532- Converter with socket, 12 V-230 V -U13- , (T3wr/3) Data bus on board diagnostic interface -J533- , (AW1 only) Instrument cluster control module -J285- Selector lever sensor system control module -J587- tiptronic switch -F189- (T10s/9) Power steering control module -J500- (T6z/1) Oil level thermal sensor -G266- (T6z/4) Hybrid battery unit -AX1- (T14ax/7)⁶ Electric drive power and control electronics -JX1- (T28jx/56)⁶ | 15a |
| F15 | Fuse 15 (on fuse panel C) -SC15- | 10A | <ul style="list-style-type: none"> 16-pin connector -T16- , (diagnostic connection) Instrument panel and switch illumination dimmer switch -E20- Headlamp range control adjuster -E102- , (AW1 only) Fresh air blower relay -J13- Mass airflow sensor -G70- Positive crankcase ventilation heating element -N79- Structure borne sound control module -J869- Left front headlamp -MX1- Left headlamp beam adjustment motor -V48- Right front headlamp -MX2- Right headlamp beam adjustment motor -V49- Vehicle electrical system control module -J519- (T73a/44) | 15a |
| F16 | Fuse 16 (on fuse panel C) -SC16- | 10A | <ul style="list-style-type: none"> Auxiliary engine coolant pump relay -J496- Engine control module -J623- Electric drive button -E656- ⁶ | 15a |
| F17 | Fuse 17 (on fuse panel C) -SC17- | 10A | <ul style="list-style-type: none"> - Anti-theft alarm system horn ² - Anti-theft alarm system interior sensor ² - Anti-theft alarm system alarm ² | 30a |
| F18 | Fuse 18 (on fuse panel C) -SC18- | 15A | <ul style="list-style-type: none"> Left front headlamp -MX1- Left low beam headlamp bulb -M29- ³ | 56b |
| F19 | Fuse 19 (on fuse panel C) -SC19- | 15A | <ul style="list-style-type: none"> Right front headlamp -MX2- Right low beam headlamp bulb -M31- ³ | 56b |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|--------------------------|---|----------|
| F20 | - Fuse 20 (on fuse panel C) -SC20- | 10A | - Ignition/starter switch -D- , (T10/10), (AW0 only) tiptronic switch -F189- Automatic transmission control module -J217- Selector lever sensor system control module -J587- Climatronic control module -J255- Auxiliary engine coolant heater radio frequency receiver -R149- | 30a |
| F21 | - Fuse 21 (on fuse panel C) -SC21- | 15/ 20A ⁸ | - Vehicle electrical system control module -J519- , (T73a/73), (AW0 only) Dual tone horn relay -J4- , (AW1 only) High tone horn -H2- Low tone horn -H7- | 30a |
| F22 | - Fuse 22 (on fuse panel C) -SC22- | 20A ⁹ 7.5A | - Ignition/starter switch -D- , (AW0 only) Converter box -J935- , (AW0 only) Interior monitoring sensor -G273- Alarm horn relay -J641- Alarm horn -H12- | 30a |
| F23 | - Fuse 23 (on fuse panel C) -SC23- | 10A | - Vehicle electrical system control module -J519- , (T73b/39) (AW0 only) 16-pin connector -T16- , (diagnostic connection) Light switch -E1- , (AW1 only) Rain/light recognition sensor -G397- Compass magnetic field sensor -G197- ⁵ | 30a |
| F24 | - Fuse 24 (on fuse panel C) -SC24- | 10A | - Vehicle electrical system control module -J519- , (T73a/64) (AW0 only) Access/start authorization control module -J518- | 30a |
| F25 | - Fuse 25 (on fuse panel C) -SC25- | 15A | - Automatic transmission control module -J217- Selector lever sensor system control module -J587- Multifunction switch -F125- | 15a |
| F26 | - Fuse 26 (on fuse panel C) -SC26- | 15A | - Brake system vacuum pump -V192- | 15a |
| F27 | - Fuse 27 (on fuse panel C) -SC27- | 1A | - Airbag spiral spring/return spring with slip ring -F138- , (T16k/1) | 15a |
| F28 | - Fuse 28 (on fuse panel C) -SC28- | 40A | - Auxiliary heater operation relay -J485- | 75a |
| F29 | - Fuse 29 (on fuse panel C) -SC29- | 1A/30A ¹ | - Vehicle electrical system control module -J519- , (T73b/51) (AW0 only) Ignition/starter switch -D- , (AW0 only) Converter box -J935- , (AW0 only) | - |
| F30 | - Fuse 30 (on fuse panel C) -SC30- | 20A | - Cigarette lighter -U1- 12 V socket -U5- 12 V socket 2 -U18- Blocking diode -J29- | 75a |
| F31 | - Fuse 31 (on fuse panel C) -SC31- | 30A | - Light switch -E1- , (T17/1) (AW0 only) | 75a |
| F32 | - Fuse 32 (on fuse panel C) -SC32- | 20A | - Light switch -E1- , (T17/2) (AW0 only) | 75a |
| F33 | - Fuse 33 (on fuse panel C) -SC33- | 40A | - Heater/heat output switch -E16- Fresh air blower relay -J13- A/C control module -J301- Fresh air blower switch -E9- | 75a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|--|----------|
| F34 | Fuse 34 (on fuse panel C) -SC34- | 15A | - Left high beam headlamp bulb -M30- (AW0 only) Right high beam headlamp bulb -M32- (AW0 only) Instrument cluster control module -J285- (-K1-, AW0 only) | 56a |
| F35 | Fuse 35 (on fuse panel C) -SC35- | 10A | - Steering column electronics control module -J527- , (AW1 only) Data bus on board diagnostic interface -J533- , (AW1 only) | 30a |
| F36 | Fuse 36 (on fuse panel C) -SC36- | 25A | - Vehicle electrical system control module -J519- , (T73a/16)(AW0 only), (T52b/1)(AW1 only) Vehicle electrical system control module -J519- , (T73a/61)(AW0 only) ² | 30a |
| F37 | Fuse 37 (on fuse panel C) -SC37- | 15A | - Left front headlamp -MX1- Left daytime running lamp bulb -L174- | TFL |
| F38 | Fuse 38 (on fuse panel C) -SC38- | 15A | - Right front headlamp -MX2- Right daytime running lamp bulb -L175- | TFL |
| F39 | Fuse 39 (on fuse panel C) -SC39- | 20A | - Low beam relay -J331- | 56b |
| F40 | Fuse 40 (on fuse panel C) -SC40- | 15A | - Towing recognition control module -J345- , (T12a/9) | 30a |
| F41 | Fuse 41 (on fuse panel C) -SC41- | 15A | - Towing recognition control module -J345- , (T12a/12) | 30a |
| F42 | Fuse 42 (on fuse panel C) -SC42- | 20A | - Towing recognition control module -J345- , (T12a/11) | 30a |
| F43 | Fuse 43 (on fuse panel C) -SC43- | 30A | - Front passenger door control module -J387- Control Module for Emergency Call Module and Communication Unit -J949- for vehicle w/o Start/Stop system | 30a |
| F44 | Fuse 44 (on fuse panel C) -SC44- | 30A | - Rear window defogger relay -J9- , (AW1 only) Rear window defogger -Z1- Vehicle electrical system control module -J519- , (T73b/67) (AW0 only) | 30a |
| F45 | Fuse 45 (on fuse panel C) -SC45- | 30A | - Driver door control module -J386- Front passenger door control module -J387- ³ | 30a |
| F46 | Fuse 46 (on fuse panel C) -SC46- | 30A | - Left rear door control module -J388- Right rear door control module -J389- | 30a |
| F47 | Fuse 47 (on fuse panel C) -SC47- | 15A | - Fuel pump control module -J538- Fuel pump relay -J17- Fuel primer relay -J643- | 30a |
| F48 | Fuse 48 (on fuse panel C) -SC48- | 20A | - Vehicle electrical system control module -J519- , (T52b/42) (AW1 only) Vehicle electrical system control module -J519- , (T73b/11) (AW0 only) Vehicle electrical system control module -J519- , (T73b/13) (AW0 only) | 30a |
| F49 | Fuse 49 (on fuse panel C) -SC49- | 40A | - Fresh air blower -V2- Climatronic control module -J255- A/C control module -J301- | 30 |
| F50 | Fuse 50 (on fuse panel C) -SC50- | 30A | - Front seat heating control module -J774- | 30a |
| F51 | Fuse 51 (on fuse panel C) -SC51- | 20A | - Sunroof control module -J245- | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|--------------------------|--|----------|
| F52 | - Fuse 52 (on fuse panel C) -SC52- | 20A | - Headlamp Washer Relay -J39- Headlamp washer pump -V11- | 30a |
| F53 | - Fuse 53 (on fuse panel C) -SC53- | 15A | - Driver seat lumbar support adjustment switch -E176- | 30 |
| F54 | - Fuse 54 (on fuse panel C) -SC54- | 15A | - Fog lamp relay -J5- | 55 |
| F55 | - Fuse 55 (on fuse panel C) -SC55- | 20A | - Light switch -E1- , (T17/15) (AW0 only) Left steering column switch -EX19- , (T16Is/10) (AW0 only) | 30 |
| F56 | - Fuse 56 (on fuse panel C) -SC56- | 10A | - Hybrid battery unit -AX1- (T14ax/5) ⁶ Electric drive power and control electronics -JX1- (T28jx/55) ⁶ | 30a |
| F57 | - Fuse 57 (on fuse panel C) -SC57- | 15A/ 25A ³ | - Radio -R- Radio/Navigation Display Control Module -J503- | 30a |
| F58 | - Fuse 58 (on fuse panel C) -SC58- | 30A | - Converter with socket, 12 V-230 V -U13- | 30a |
| F59 | - Fuse 59 (on fuse panel C) -SC59- | 15A | - Fan activation relay -J937- ⁶ Battery fan 1 -V457- ⁶ | 30 |
| F60 | - Fuse 60 (on fuse panel C) -SC60- | 30A | - Auxiliary heater control module -J364- | 30a |

¹ Depending on equipment

² Running change

³ Only for vehicles with China equipment

⁴ only for vehicles equipped with Start/Stop

⁵ only for vehicles without Start/Stop

⁶ Engine code CNLA

⁷ Only for vehicles with hybrid drive

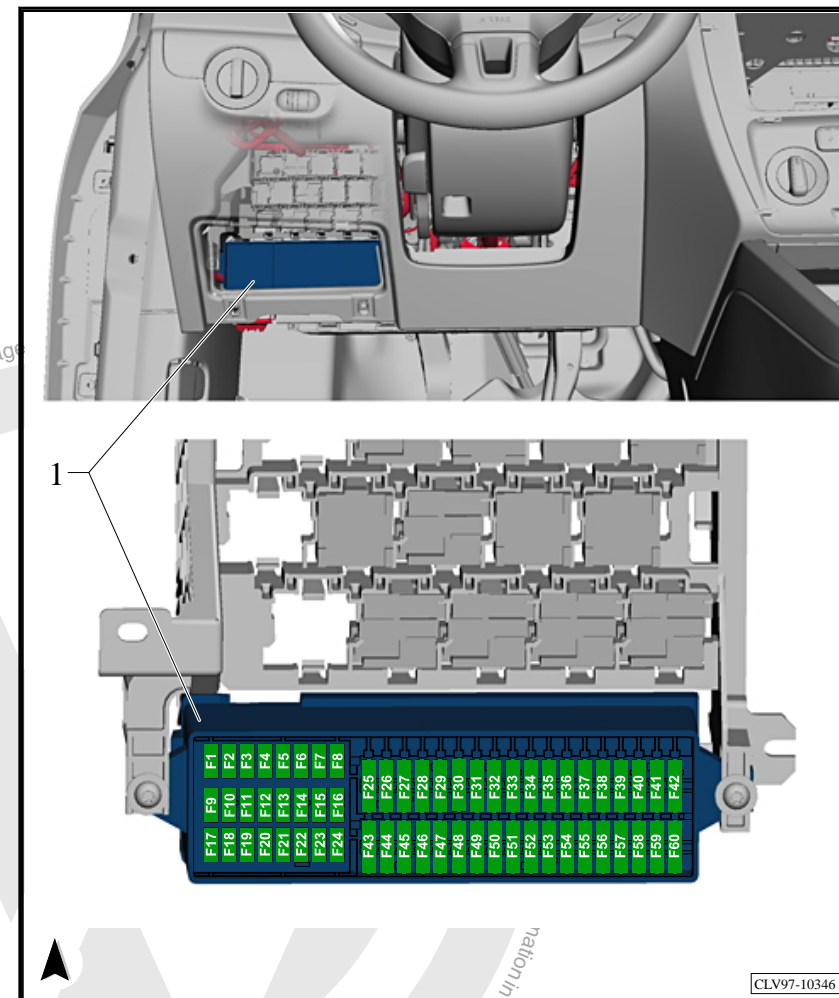
⁸ Only for cars with double-horn

⁹ Only for vehicles with equipment High (AW1)

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1.12 Fuse (SC), from MY 2014

1 - Fuse panel C -SC-



| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|---|----------|
| F1 | - Fuse 1 (on fuse panel C) -SC1- | 10A | - Left washer nozzle heater -Z20- Right washer nozzle heater -Z21- | 15a |
| F2 | - Fuse 2 (on fuse panel C) -SC2- | 10A | - Electronic steering column lock control module -J764- (T16v/2) | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|---|--------------------------|
| F3 | - Fuse 3 (on fuse panel C) -SC3- | 10A | - Instrument cluster control module -J285- , (T32/32) | 30a/ 30 stabilized |
| F4 | - Fuse 4 (on fuse panel C) -SC4- | 5A | - Telephone Transceiver -R36- Compass magnetic field sensor -G197- ⁴ | 30a |
| F5 | - Fuse 5 (on fuse panel C) -SC5- | 10A | Left rear fog lamp bulb -L46- | 55a |
| F6 | - Fuse 6 (on fuse panel C) -SC6- | 10A | - Vehicle electrical system control module -J519- , (T73a/66) (interior lamp, AW0 only) Rearview camera -R189- | 30a |
| F7 | - Fuse 7 (on fuse panel C) -SC7- | 10A | - Fog lamp relay -J5- , (AW0 only) ¹ Instrument panel and switch illumination dimmer switch -E20- , (AW0 only) License plate lamp -X- Vehicle electrical system control module -J519- , (T52c/27), (AW1 only) | 58 |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | 7.5/10A | - Windshield and headlamp washer pump switch -E44- , (AW0 only) Windshield washer pump -V5- , (AW0 only) Vehicle electrical system control module -J519- , (T73b/61), (AW0 only) | 53c |
| F8 | - Fuse 8 (on fuse panel C) -SC8- | - | - not used, (AW1 only) | - |
| F9 | - Fuse 9 (on fuse panel C) -SC9- | 5A | - Airbag control module Airbag Control Module -J234- Front passenger airbag -disabled- indicator lamp -K145- Passenger occupant detection system control module -J706- | 15a |
| F10 | - Fuse 10 (on fuse panel C) -SC10- | 10A | - Right steering column switch -EX20- , (T10Is/3), (AW0 only) | 15a |
| F11 | - Fuse 11 (on fuse panel C) -SC11- | 10A | - Left front headlamp -MX1- , (HID headlamp) | 15a |
| F12 | - Fuse 12 (on fuse panel C) -SC12- | 10A | - Right front headlamp -MX2- , (HID headlamp) | 15a |
| F13 | - Fuse 13 (on fuse panel C) -SC13- | 5A | - Automatic dimming interior rearview mirror -Y7- Light recognition sensor -G399- Parking aid control module -J446- Air quality sensor -G238- High pressure sensor -G65- Climatronic control module -J255- Tire pressure monitoring button -E226- ASR/ESP button -E256- Back-up lamp switch -F4- Start/Stop mode switch -E262- 28-pin connector -T28- , (T28/10): Mirror adjusting switch -E43- Exterior rearview mirror heating switch -E231- A/C compressor control module -J842- (T14hy/14) ⁶ Cornering lamp and headlamp range control module -J745- | 15a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|----------------------------------|---------------|--|----------|
| F14 | Fuse 14 (on fuse panel C) -SC14- | 10A | Left steering column switch -EX19- , (T16ls/1), (AW0 only) ABS control module -J104- , T26/20 / T47/8) Light switch -E1- , (T10h/4) (AW1 only) Airbag spiral spring/return spring with slip ring -F138- , (T16k/14) Fuel pump control module -J538- Towing recognition control module -J345- , (T12a/2) Voltage stabilizer -J532- Converter with socket, 12 V-230 V -U13- , (T3wr/3) Data bus on board diagnostic interface -J533- , (AW1 only) Instrument cluster control module -J285- Selector lever sensor system control module -J587- tiptronic switch -F189- (T10s/9) Power steering control module -J500- (T6z/1) Oil level thermal sensor -G266- (T6z/4) Hybrid battery unit -AX1- (T14ax/7) ⁶ Electric drive power and control electronics -JX1- (T28jx/56) ⁶ | 15a |
| F15 | Fuse 15 (on fuse panel C) -SC15- | 10A | 16-pin connector -T16- , (diagnostic connection) Instrument panel and switch illumination dimmer switch -E20- Headlamp range control adjuster -E102- , (AW1 only) Fresh air blower relay -J13- Mass airflow sensor -G70- Positive crankcase ventilation heating element -N79- Structure borne sound control module -J869- Left front headlamp -MX1- Left headlamp beam adjustment motor -V48- Right front headlamp -MX2- Right headlamp beam adjustment motor -V49- Vehicle electrical system control module -J519- (T73a/44) | 15a |
| F16 | Fuse 16 (on fuse panel C) -SC16- | 10A | Auxiliary engine coolant pump relay -J496- Fuel pump control module -J538- Engine control module -J623- Electric drive button -E656- ⁶ | 15a |
| F17 | Fuse 17 (on fuse panel C) -SC17- | 15A | - Anti-theft alarm system horn ² - Anti-theft alarm system interior sensor ² - Anti-theft alarm system alarm ² | 30a |
| F18 | Fuse 18 (on fuse panel C) -SC18- | 15A | Left front headlamp -MX1- Left low beam headlamp bulb -M29- ³ | 56b |
| F19 | Fuse 19 (on fuse panel C) -SC19- | 15A | Right front headlamp -MX2- Right low beam headlamp bulb -M31- ³ | 56b |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|-------------------------|---|----------|
| F20 | - Fuse 20 (on fuse panel C) -SC20- | 10A | - Ignition/starter switch -D- , (T10/10), (AW0 only) tiptronic switch -F189- Automatic transmission control module -J217- Selector lever sensor system control module -J587- Climatronic control module -J255- Auxiliary engine coolant heater radio frequency receiver -R149- | 30a |
| F21 | - Fuse 21 (on fuse panel C) -SC21- | 20A | - Vehicle electrical system control module -J519- , (T73a/73), (AW0 only) Dual tone horn relay -J4- , (AW1 only) High tone horn -H2- , (AW1 only) Low tone horn -H7- , (AW1 only) | 30a |
| F22 | - Fuse 22 (on fuse panel C) -SC22- | 15A ⁷ 10A | - Ignition/starter switch -D- , (AW0 only) Converter box -J935- , (AW0 only) Interior monitoring sensor -G273- Alarm horn relay -J641- Alarm horn -H12- | 30a |
| F23 | - Fuse 23 (on fuse panel C) -SC23- | 10A | - Vehicle electrical system control module -J519- , (T73b/39) (AW0 only) 16-pin connector -T16- , (diagnostic connection) Light switch -E1- , (AW1 only) Rain/light recognition sensor -G397- Compass magnetic field sensor -G197- ⁵ | 30a |
| F24 | - Fuse 24 (on fuse panel C) -SC24- | 10A | - Vehicle electrical system control module -J519- , (T73a/64) (AW0 only) Access/start authorization control module -J518- | 30a |
| F25 | - Fuse 25 (on fuse panel C) -SC25- | 15A | - Automatic transmission control module -J217- Selector lever sensor system control module -J587- Multifunction switch -F125- | 15a |
| F26 | - Fuse 26 (on fuse panel C) -SC26- | 20A | - Brake system vacuum pump -V192- | 15a |
| F27 | - Fuse 27 (on fuse panel C) -SC27- | 1A | - Airbag spiral spring/return spring with slip ring -F138- , (T16k/1) | 15a |
| F28 | - Fuse 28 (on fuse panel C) -SC28- | 40A | - Auxiliary heater operation relay -J485- | 75a |
| F29 | - Fuse 29 (on fuse panel C) -SC29- | 5A | - Vehicle electrical system control module -J519- , (T73b/51) (AW0 only) Ignition/starter switch -D- , (AW0 only) Converter box -J935- , (AW0 only) | - |
| F30 | - Fuse 30 (on fuse panel C) -SC30- | 20A | - Cigarette lighter -U1- 12 V socket -U5- 12 V socket 2 -U18- Blocking diode -J29- | 75a |
| F31 | - Fuse 31 (on fuse panel C) -SC31- | 30A | - Light switch -E1- , (T17/1) (AW0 only) | 75a |
| F32 | - Fuse 32 (on fuse panel C) -SC32- | 20A | - Light switch -E1- , (T17/2) (AW0 only) | 75a |
| F33 | - Fuse 33 (on fuse panel C) -SC33- | 40A | - Heater/heat output switch -E16- Fresh air blower relay -J13- A/C control module -J301- Fresh air blower switch -E9- | 75a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|--|----------|
| F34 | - Fuse 34 (on fuse panel C) -SC34- | 15A | - Left high beam headlamp bulb -M30- (AW0 only) Right high beam headlamp bulb -M32- (AW0 only) Instrument cluster control module -J285- (-K1-, AW0 only) | 56a |
| F35 | - Fuse 35 (on fuse panel C) -SC35- | 10A/5A | - Steering column electronics control module -J527- , (AW1 only) Data bus on board diagnostic interface -J533- , (AW1 only) | 30a |
| F36 | - Fuse 36 (on fuse panel C) -SC36- | 30A | - Vehicle electrical system control module -J519- , (T73a/16)(AW0 only), (T52b/1)(AW1 only) Vehicle electrical system control module -J519- , (T73a/61)(AW0 only) ² | 30a |
| F37 | - Fuse 37 (on fuse panel C) -SC37- | 10A | - Left front headlamp -MX1- Left daytime running lamp bulb -L174- | TFL |
| F38 | - Fuse 38 (on fuse panel C) -SC38- | 10A | - Right front headlamp -MX2- Right daytime running lamp bulb -L175- | TFL |
| F39 | - Fuse 39 (on fuse panel C) -SC39- | 10/30A | - Low beam relay -J331- | 56b |
| F40 | - Fuse 40 (on fuse panel C) -SC40- | 20A | - Towing recognition control module -J345- , (T12a/9) | 30a |
| F41 | - Fuse 41 (on fuse panel C) -SC41- | 15A | - Towing recognition control module -J345- , (T12a/12) | 30a |
| F42 | - Fuse 42 (on fuse panel C) -SC42- | 20A | - Towing recognition control module -J345- , (T12a/11) | 30a |
| F43 | - Fuse 43 (on fuse panel C) -SC43- | 5A | - Front passenger door control module -J387- Control Module for Emergency Call Module and Communication Unit -J949- for vehicle w/o Start/Stop system | 30a |
| F44 | - Fuse 44 (on fuse panel C) -SC44- | 30A | - Rear window defogger relay -J9- , (AW1 only) Rear window defogger -Z1- Vehicle electrical system control module -J519- , (T73b/67) (AW0 only) | 30a |
| F45 | - Fuse 45 (on fuse panel C) -SC45- | 30A | - Driver door control module -J386- Front passenger door control module -J387- ³ | 30a |
| F46 | - Fuse 46 (on fuse panel C) -SC46- | 30A | - Left rear door control module -J388- Right rear door control module -J389- | 30a |
| F47 | - Fuse 47 (on fuse panel C) -SC47- | 15A | - Fuel pump control module -J538- Fuel pump relay -J17- Fuel primer relay -J643- | 30a |
| F48 | - Fuse 48 (on fuse panel C) -SC48- | 20A | - Vehicle electrical system control module -J519- , (T52b/42) (AW1 only) Vehicle electrical system control module -J519- , (T73b/11) (AW0 only) Vehicle electrical system control module -J519- , (T73b/13) (AW0 only) | 30a |
| F49 | - Fuse 49 (on fuse panel C) -SC49- | 40A | - Fresh air blower -V2- Climatronic control module -J255- A/C control module -J301- | 30 |
| F50 | - Fuse 50 (on fuse panel C) -SC50- | 30A | - Front seat heating control module -J774- | 30a |
| F51 | - Fuse 51 (on fuse panel C) -SC51- | 20A | - Sunroof control module -J245- | 30a |

| No. | Designation in Wiring Diagram | Nominal Value | Function/Component | Terminal |
|-----|------------------------------------|---------------|--|----------|
| F52 | - Fuse 52 (on fuse panel C) -SC52- | 20A | - Headlamp Washer Relay -J39- Headlamp washer pump -V11- | 30a |
| F53 | - Fuse 53 (on fuse panel C) -SC53- | 15A | - Driver seat lumbar support adjustment switch -E176- | 30 |
| F54 | - Fuse 54 (on fuse panel C) -SC54- | 15A | - Fog lamp relay -J5- | 55 |
| F55 | - Fuse 55 (on fuse panel C) -SC55- | 20A | - Light switch -E1- , (T17/15) (AW0 only) Left steering column switch -EX19- , (T16Is/10) (AW0 only) | 30 |
| F56 | - Fuse 56 (on fuse panel C) -SC56- | 10A | - Hybrid battery unit -AX1- (T14ax/5) ⁶ Electric drive power and control electronics -JX1- (T28jx/55) ⁶ | 30a |
| F57 | - Fuse 57 (on fuse panel C) -SC57- | 20A | - Radio -R- Radio/Navigation Display Control Module -J503- | 30a |
| F58 | - Fuse 58 (on fuse panel C) -SC58- | 30A | - Converter with socket, 12 V-230 V -U13- | 30a |
| F59 | - Fuse 59 (on fuse panel C) -SC59- | 15A | - Fan activation relay -J937- ⁶ Battery fan 1 -V457- ⁶ | 30 |
| F60 | - Fuse 60 (on fuse panel C) -SC60- | 30A | - Auxiliary heater control module -J364- | 30a |

¹ Depending on equipment

² Running change

³ Only for vehicles with China equipment

⁴ only for vehicles equipped with Start/Stop

⁵ only for vehicles without Start/Stop

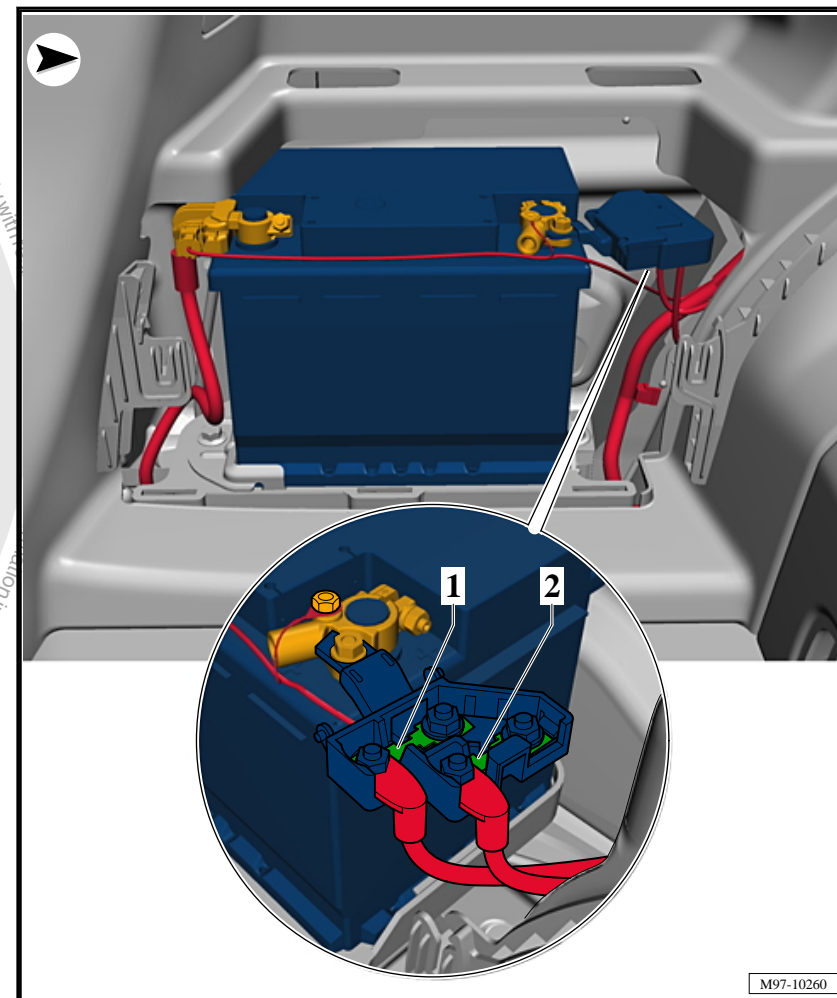
⁶ Engine code CNLA

⁷ Only for vehicles with equipment High (AW1)

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1.13 Fuses battery, Hybrid system

- Fuse 1 (terminal 30) on battery fuse panel -S162- -1-, Nominal value 175 A
- Fuse 2 (terminal 30) on battery fuse panel -S163- -2-, Nominal value 80 A



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1 Comp. Loc. Relays

- ◆ ⇒ [“1.1 Relay carrier on the E-Box”, page 1](#)
- ◆ ⇒ [“1.2 Relay carrier on the vehicle electrical system control module”, page 5](#)
- ◆ ⇒ [“1.3 Auxiliary relay carrier near the E-box”, page 15](#)

1.1 Relay carrier on the E-Box



Note

The design of the electrical system in the Jetta is recognized based on the arrangement of the E-box. If relay positions R1 and R2 are not used, it is an E-box Low, Low equipment (AW0). If relay positions R1 and R2 are used, it is an E-box High, High equipment (AW1).

⇒ [“1.1.1 Relay on E-box low”, page 1](#)

⇒ [“1.1.2 Relay on E-box High, without hybrid system”, page 3](#)

⇒ [“1.1.3 Relay on E-box High, with hybrid system”, page 4](#)

1.1.1 Relay on E-box low



Note

E-Box Low, relay positions R1 and R2 are not used : select the wiring diagrams for basic equipment, convenience system in Low (AW0)!

R1 - Not used

R2 - Not used

R3 - Main relay -J271- (100)

R3 - Terminal 30 power supply relay -J317- (644)

R3 - Fuel primer relay -J643- (640)

R4 - Relay for low heat output -J359- (645)

R4 - Coolant circulation pump relay -J151- (645)

☐ Running change

R4 - Auxiliary engine coolant pump relay -J496- (645)

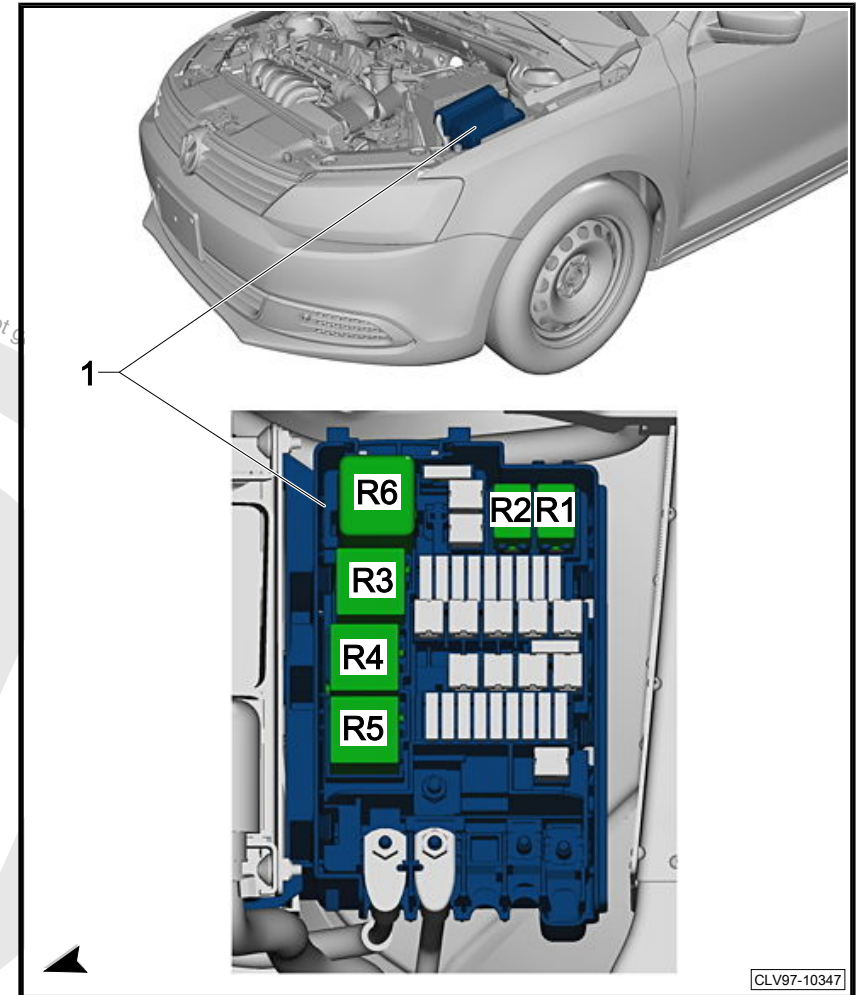
R5 - Relay for high heat output -J360- (370, 644)

R5 - Secondary air injection pump relay -J299- (100, 644)

☐ Only for vehicles with gasoline engine

R6 - Automatic glow time control module -J179-

☐ From November 2010



1.1.2 Relay on E-box High, without hybrid system



Note

E-Box High, relay positions R1 and R2 are used : select the wiring diagrams for basic equipment, convenience system in High (AW1)!

R1 - Wiper motor change-over relay 1 -J368- (404, 650)

R2 - Wiper motor change-over relay 2 -J369- (404, 650)

R3 - Main relay -J271- (100)

R3 - Terminal 30 power supply relay -J317- (644)

R3 - Fuel primer relay -J643- (640)

R4 - Relay for low heat output -J359- (645)

R4 - Coolant circulation pump relay -J151- (645, 498)

☐ Running change

R4 - Auxiliary engine coolant pump relay -J496- (645)

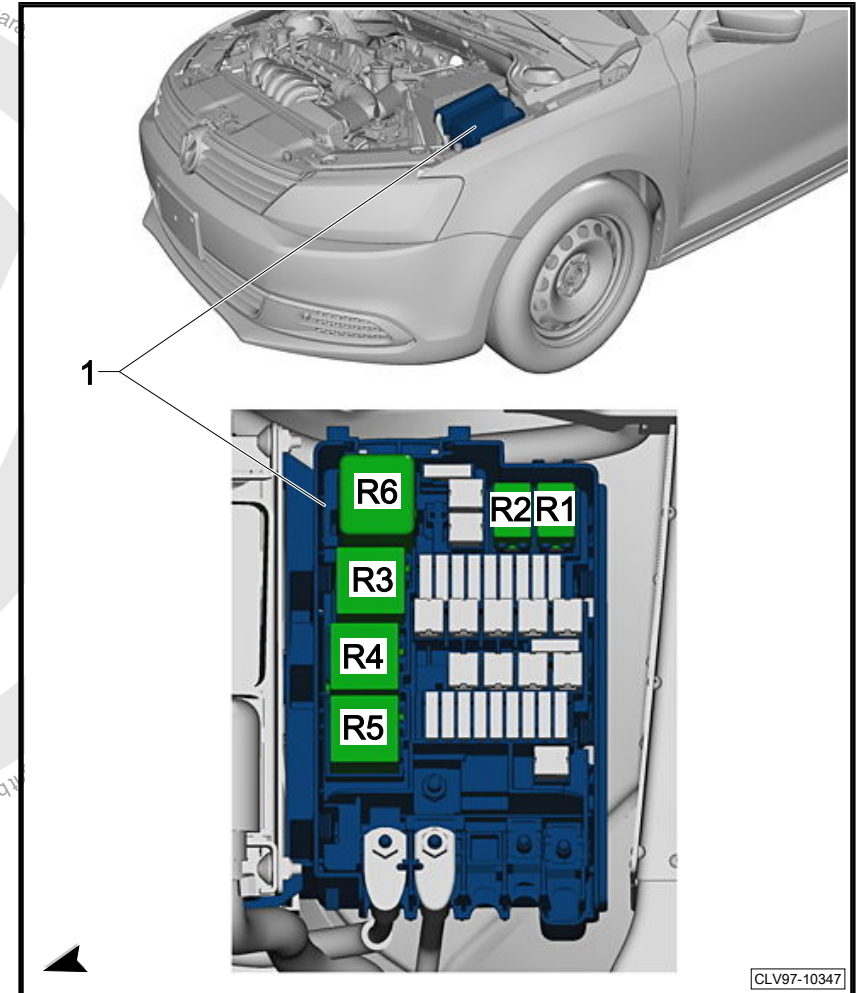
R5 - Relay for high heat output -J360- (370, 644)

R5 - Secondary air injection pump relay -J299- (100, 644)

☐ Only for vehicles with gasoline engine

R6 - Automatic glow time control module -J179-

☐ From November 2010



1.1.3 Relay on E-box High, with hybrid system



Note

If relay positions R1 and R2 are used, it is an E-box High, High equipment (AW1).

R1 - Wiper motor change-over relay 1 -J368- (650)

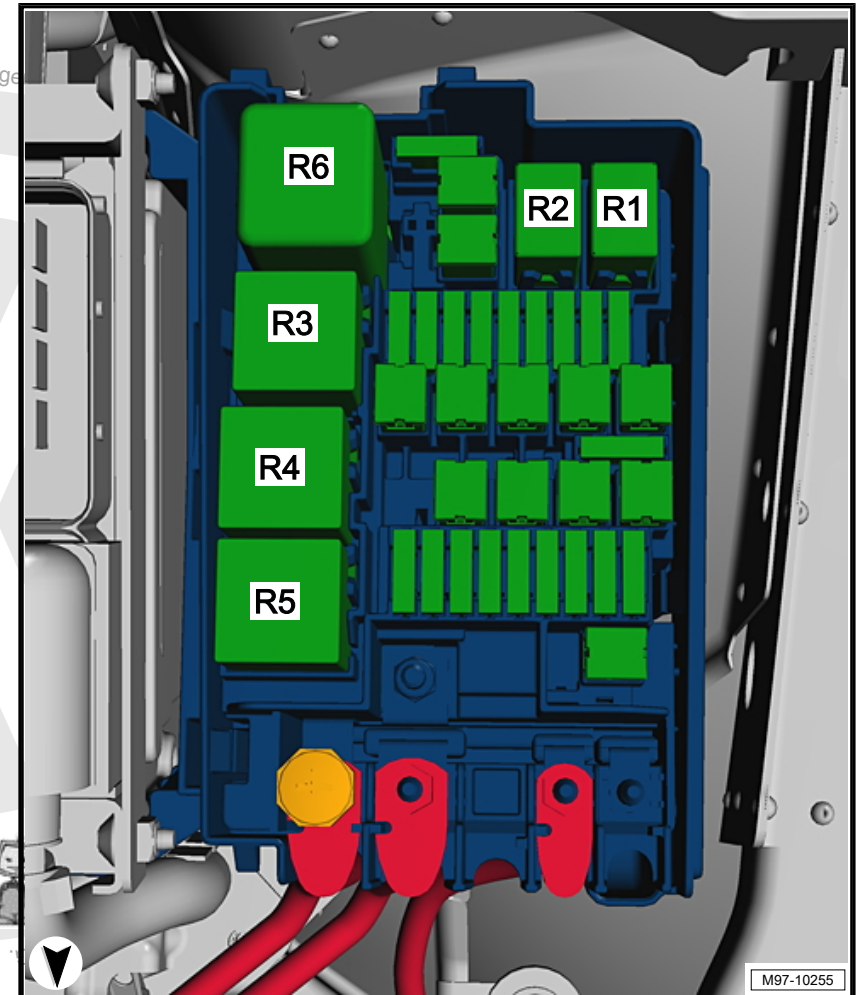
R2 - Wiper motor change-over relay 2 -J369- (650)

R3 - Main relay -J271- (644)

R4 - Relay for low heat output -J359- (645)

R5 - Relay for high heat output -J360- (644)

R6 - Brake booster relay -J569- , (643)



1.2 Relay carrier on the vehicle electrical system control module



Note

The design of the electrical system in the Jetta is recognized based on the arrangement of the E-box. If relay positions R1 and R2 are not used, it is an E-box Low, Low equipment (AW0). If relay positions R1 and R2 are used, it is an E-box High, High equipment (AW1).

⇒ [“1.2.1 15-pin relay carrier, from MY 2011”, page 5](#)

⇒ [“1.2.2 12-pin relay carrier on E-Box Low, from MY 2012”, page 7](#)

⇒ [“1.2.4 12-pin relay carrier on E-Box Low, from MY 2013”, page 11](#)

⇒ [“1.2.3 12-pin relay carrier on E-Box High, from MY 2012”, page 9](#)

⇒ [“1.2.5 12-pin relay carrier on E-Box High, from MY 2013”, page 13](#)

1.2.1 15-pin relay carrier, from MY 2011



R1 - Converter box -J935- (499)

❑ E-Box Low, (AW0)

R2 - Fresh air blower relay -J13- (449, 645)

R2 - Alarm horn relay -J641- (446)

R3 - Auxiliary heater operation relay -J485- (449)

R4 - Fuel Pump (FP) Relay -J17- (449)

R4 - Engine Component Power Supply Relay -J757- (498)

R4 - Auxiliary engine coolant pump relay -J496- (449)

R5 - Low beam relay -J331- (53)

❑ E-Box Low, (AW0)

R6 - Fresh air blower relay -J13- (53)

R7 - Terminal 75 power supply relay 1 -J680- (53)

R8 - Dual tone horn relay -J4- (449)

R8 - Headlamp washer relay -J39- (449)

R9 - Power Supply Relay (terminal 50) -J682- (643)

R10 - Terminal 15 power supply relay 2 -J681- (643)

R11 - Rear window defogger relay -J9- (449)

R12 - Fuel pump relay 2 -J49- (449, 646)

R12 - Heat resistance relay -J925- (449, 646)

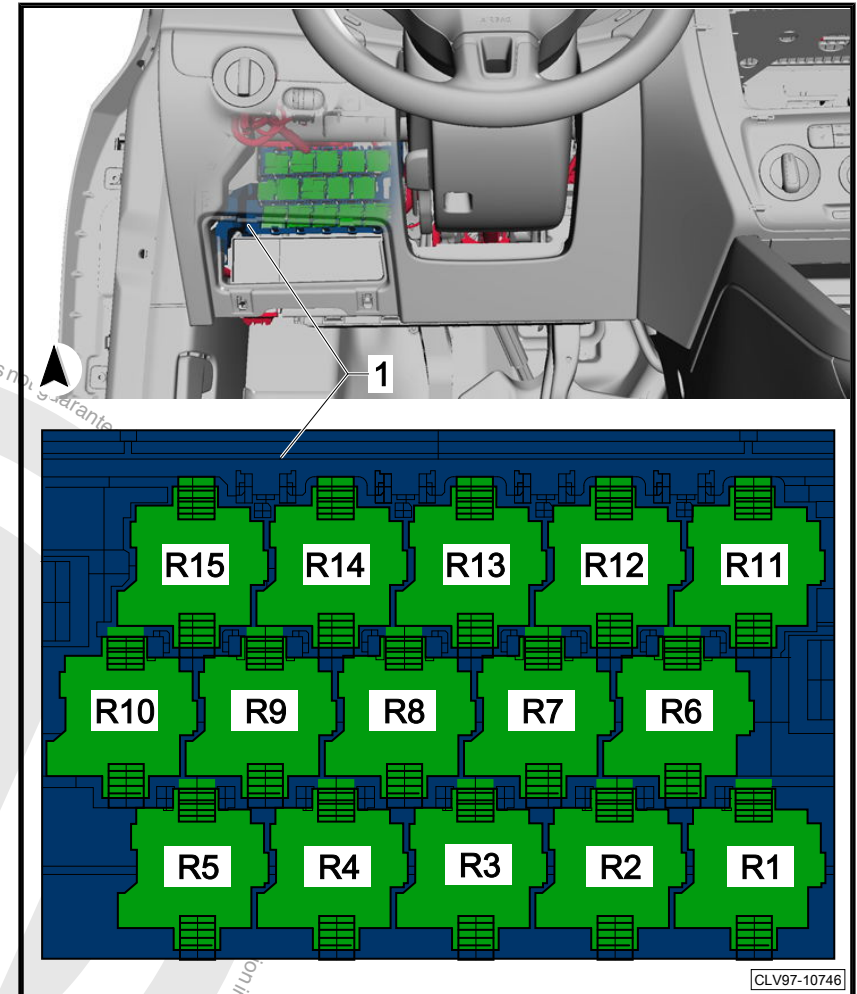
R12 - Cold start injector relay -J41- (645)

R12 - Fuel primer relay -J643- (446)

R13 - Power Supply Relay (terminal 50) -J682- (433, 507)

R14 - Terminal 15 power supply relay -J329- (645)

R15 - Fog lamp relay -J5- (53)



1.2.2 12-pin relay carrier on E-Box Low, from MY 2012



The design of the electrical system in the Jetta is recognized based on the arrangement of the E-box. If relay positions R1 and R2 are not used, it is an E-box Low, Low equipment (AW0). If relay positions R1 and R2 are used, it is an E-box High, High equipment (AW1).

R1 - Dual tone horn relay -J4- (446)

R1 - Alarm horn relay -J641- (446)

- ☐ USA, Mexico
- ☐ Relay position 1.2

R1 - Headlamp washer relay -J39- (446)

R2 - Power Supply Relay (terminal 50) -J682- (507)

R2 - Starter relay 2 -J907- (507)

R3 - Fuel pump relay 2 -J49- (646)

- ☐ Relay position 3.1

R3 - Heat resistance relay -J925- (646)

- ☐ Relay position 3.2

R4 - Coolant circulation pump relay -J151- (646)

- ☐ Discontinued as a running change (now relay position 4 on the E-box Low)

R4 - Auxiliary engine coolant pump relay -J496- (646)

- ☐ Relay position 4.1

R4 - Fuel primer relay -J643- (446)

R4 - Fuel Pump (FP) Relay -J17- (446)

- ☐ Relay position 4.2

R5 - Terminal 75 power supply relay 1 -J680- (645)

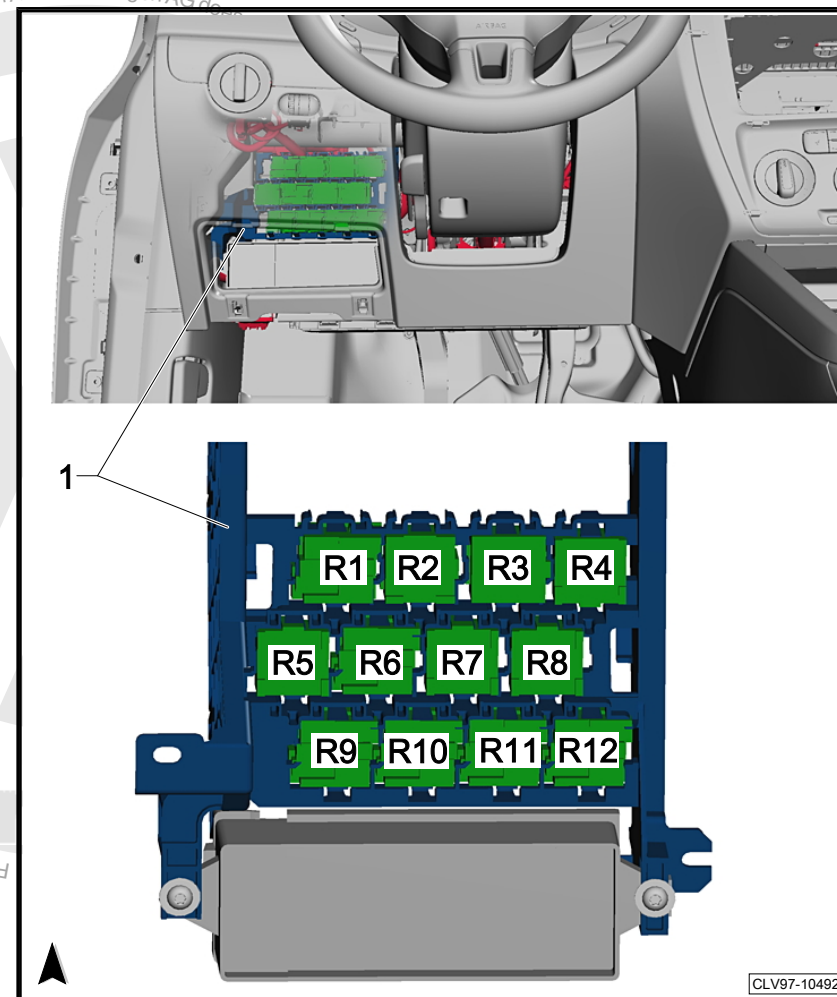
- ☐ Discontinued as a running change (now relay position 10)

R5 - Not used

- ☐ Running change

R6 - Power Supply Relay (terminal 50) -J682- (645)

R6 - Starter relay 1 -J906- (645)



R7 - Terminal 15 power supply relay -J329- (645)

R8 - Low beam relay -J331- (645)

R9 - Terminal 15 power supply relay 2 -J681- (645)

R10 - Terminal 75 power supply relay 1 -J680- (645), running change

R11 - Fog lamp relay -J5- (645)

R12 - Converter box -J935- (499)



1.2.3 12-pin relay carrier on E-Box High, from MY 2012



Note

The design of the electrical system in the Jetta is recognized based on the arrangement of the E-box. If relay positions R1 and R2 are not used, it is an E-box Low, Low equipment (AW0). If relay positions R1 and R2 are used, it is an E-box High, High equipment (AW1).

R1 - Dual tone horn relay -J4- (446)

R1 - Headlamp washer relay -J39- (446)

☐ Relay position 1.1

R2 - Power Supply Relay (terminal 50) -J682- (507)

R2 - Starter relay 2 -J907- (507)

R3 - Cold start injector relay -J41- (645)

R3 - Fuel pump relay 2 -J49- (646)

☐ Relay position 3.1

R3 - Heat resistance relay -J925- (646)

☐ Relay position 3.2

R4 - Coolant circulation pump relay -J151- (646)

☐ Discontinued as a running change (now relay position 4 on the E-box High)

R4 - Auxiliary engine coolant pump relay -J496- (646)

☐ Relay position 4.1

R4 - Fuel primer relay -J643- (446)

R4 - Fuel Pump (FP) Relay -J17- (446)

☐ Relay position 4.2

R5 - Terminal 75 power supply relay 1 -J680- (645)

☐ Discontinued as a running change (now relay position 10)

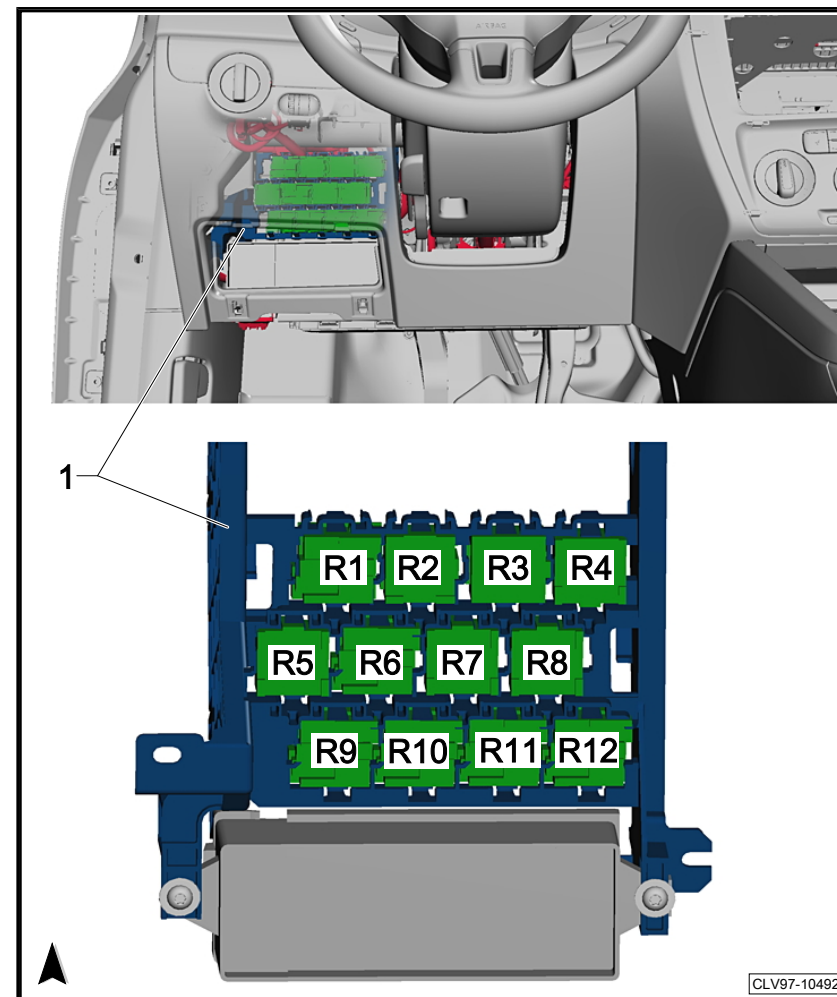
R5 - Not used

☐ Running change

R6 - Power Supply Relay (terminal 50) -J682- (645)

R6 - Starter relay 1 -J906- (645)

R7 - Auxiliary heater operation relay -J485- (646)



R8 - Rear window defogger relay -J9- (646)

R9 - Terminal 15 power supply relay 2 -J681- (645)

R10 - Terminal 75 power supply relay 1 -J680- (645), running change

R11 - Fresh air blower relay -J13- (645)

R12 - Not used



1.2.4 12-pin relay carrier on E-Box Low, from MY 2013



The design of the electrical system in the Jetta is recognized based on the arrangement of the E-box. If relay positions R1 and R2 are not used, it is an E-box Low, Low equipment (AW0). If relay positions R1 and R2 are used, it is an E-box High, High equipment (AW1).

R1 - Dual tone horn relay -J4- (446)

R1 - Alarm horn relay -J641- (446)

- ☐ USA, Mexico
- ☐ Relay position 1.2

R1 - Headlamp washer relay -J39- (446)

R2 - Power Supply Relay (terminal 50) -J682- (507)

R2 - Starter relay 2 -J907- (507)

- ☐ Relay position 2.1

R3 - Cold start injector relay -J41- (645)

R3 - Fuel pump relay 2 -J49- (646)

- ☐ Relay position 3.1

R3 - Heat resistance relay -J925- (646)

- ☐ Relay position 3.2

R4 - Fuel Pump (FP) Relay -J17- (446)

R4 - Auxiliary engine coolant pump relay -J496- (646)

R4 - Fuel primer relay -J643- (446)

R5 - Not used

R6 - Power Supply Relay (terminal 50) -J682- (645)

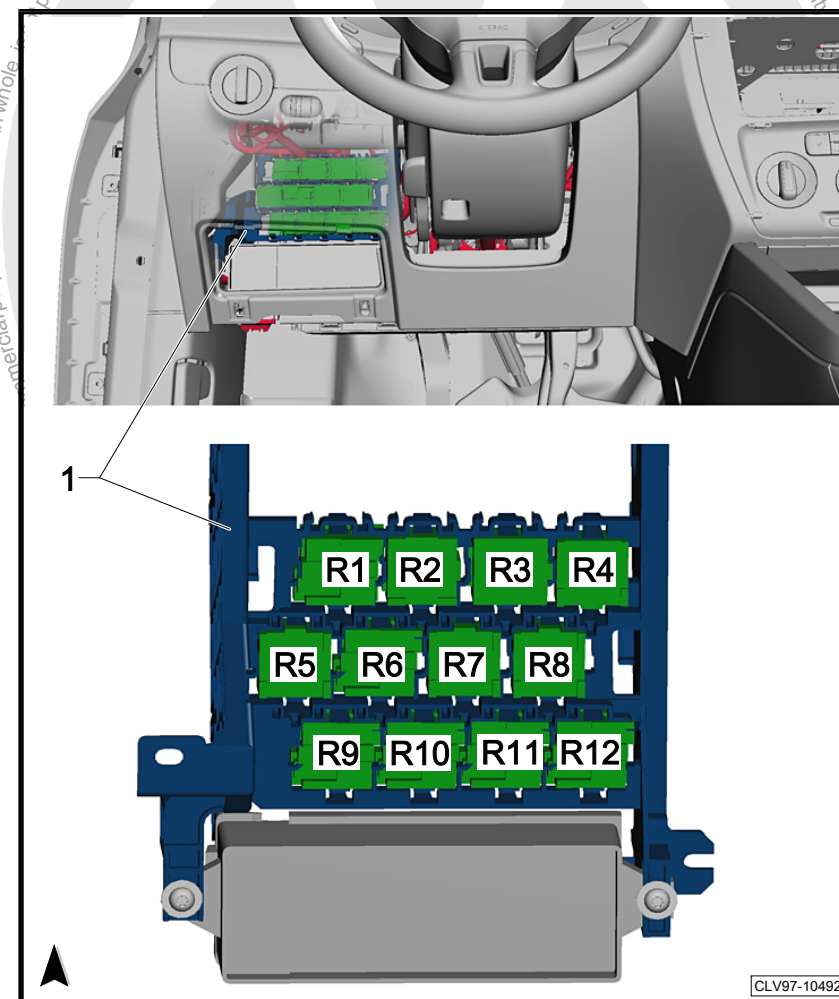
R6 - Starter relay 1 -J906- (645)

R7 - Terminal 15 power supply relay -J329- (645)

R8 - Low beam relay -J331- (645)

R9 - Terminal 15 power supply relay 2 -J681- (645)

R10 - Terminal 75 power supply relay 1 -J680- (645)



R11 - Fog lamp relay -J5- (645)

R12 - Converter box -J935- (499)



1.2.5 12-pin relay carrier on E-Box High, from MY 2013



The design of the electrical system in the Jetta is recognized based on the arrangement of the E-box. If relay positions R1 and R2 are not used, it is an E-box Low, Low equipment (AW0). If relay positions R1 and R2 are used, it is an E-box High, High equipment (AW1).

R1 - Dual tone horn relay -J4- (446)

R1 - Headlamp washer relay -J39- (446)

☐ Relay position 1.1

R2 - Power Supply Relay (terminal 50) -J682- (507)

R2 - Starter relay 2 -J907- (507)

R2 - Driver power window opening relay -J550- (650)

☐ Relay position 2.1

R2 - Driver power window closing relay -J551- (650)

☐ Relay position 2.2

R3 - Cold start injector relay -J41- (645)

R3 - Secondary air injection pump relay -J299- (CNLA)

R3 - Fuel pump relay 2 -J49- (646)

R3 - Front passenger power window opening relay -J552- (650)

☐ Relay position 3.1

R3 - Heat resistance relay -J925- (646)

R3 - Front passenger power window closing relay -J553- (650)

☐ Relay position 3.2

R4 - Fuel Pump (FP) Relay -J17- (446)

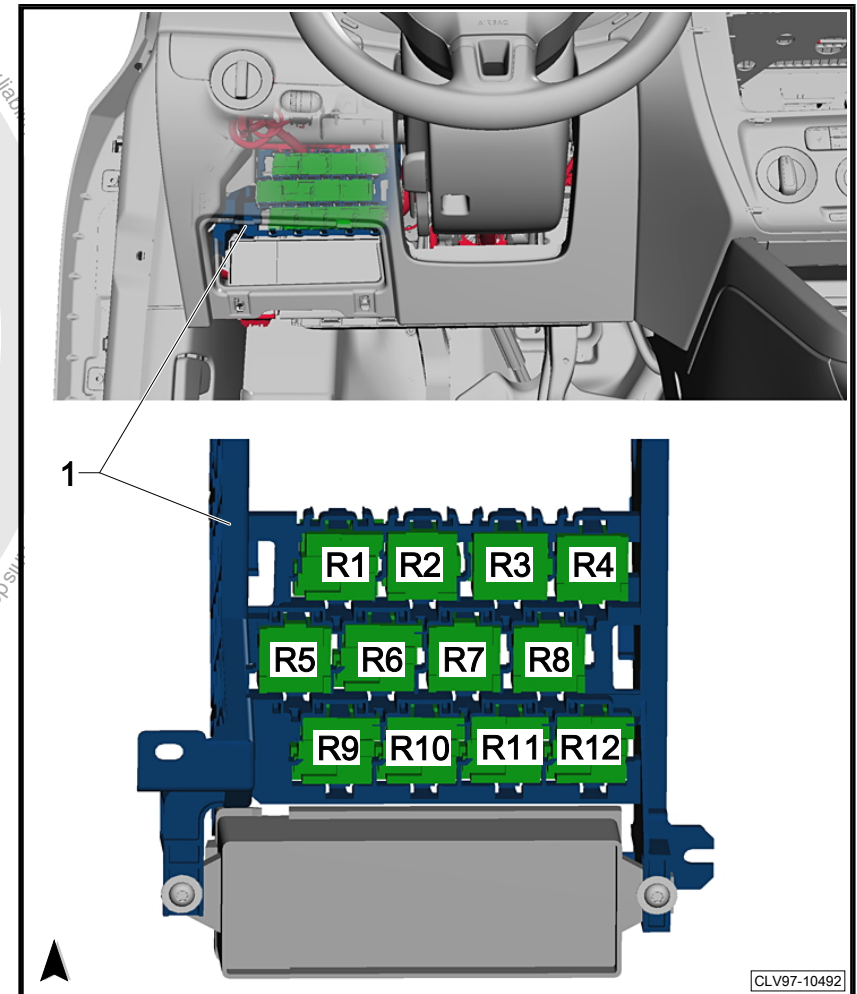
R4 - Auxiliary engine coolant pump relay -J496- (646)

R4 - Fuel primer relay -J643- (446)

R4 - Engine Component Power Supply Relay -J757- (449)

☐ Relay position 4.2

R5 - Not used



R6 - Power Supply Relay (terminal 50) -J682- (645)

R6 - Starter relay 1 -J906- (645)

R7 - Auxiliary heater operation relay -J485- (646)

R7 - Power window relay -J51- (650)

R8 - Rear window defogger relay -J9- (646)

R9 - Terminal 15 power supply relay 2 -J681- (645)

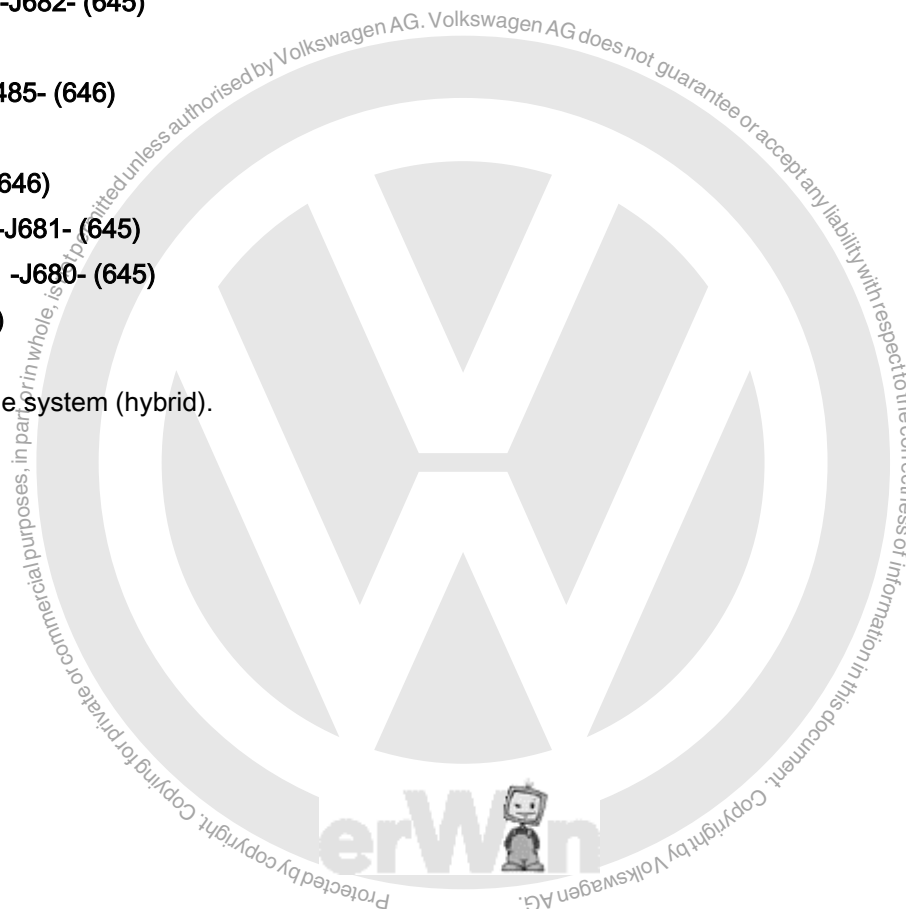
R10 - Terminal 75 power supply relay 1 -J680- (645)

R11 - Fresh air blower relay -J13- (645)

R11 - Fan activation relay -J937- (646)

- ☐ Only for vehicles with high voltage system (hybrid).

R12 - Not used

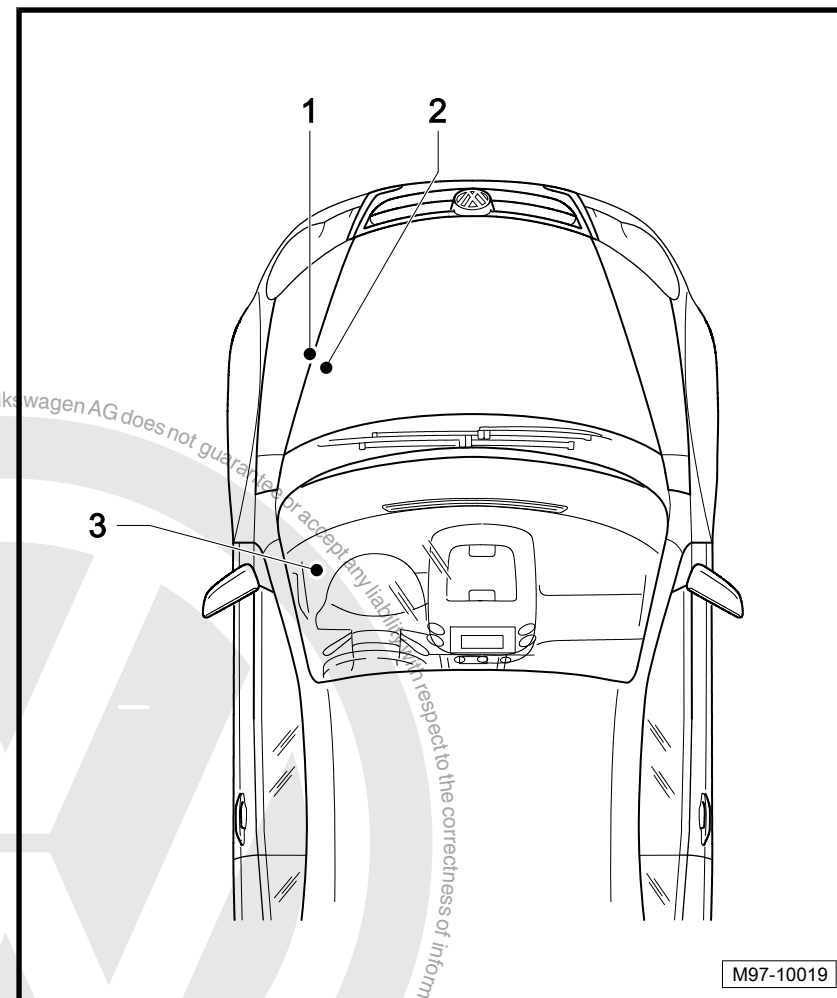


1.3 Auxiliary relay carrier near the E-box

2 - Auxiliary relay carrier

2 - Automatic glow time control module -J179- Through October 2010:

- ☐ From November 2010, J179 is located on the E-box relay carrier position R6



M97-10019

1 Comp. Loc.: Vehicle Front

- ◆ ⇒ [“1.1 Engine”, page 1](#)
- ◆ ⇒ [“1.2 Engine Compartment”, page 24](#)
- ◆ ⇒ [“1.3 Transmission”, page 30](#)
- ◆ ⇒ [“1.4 Front Bumper”, page 36](#)
- ◆ ⇒ [“1.5 Hybrid System”, page 36](#)

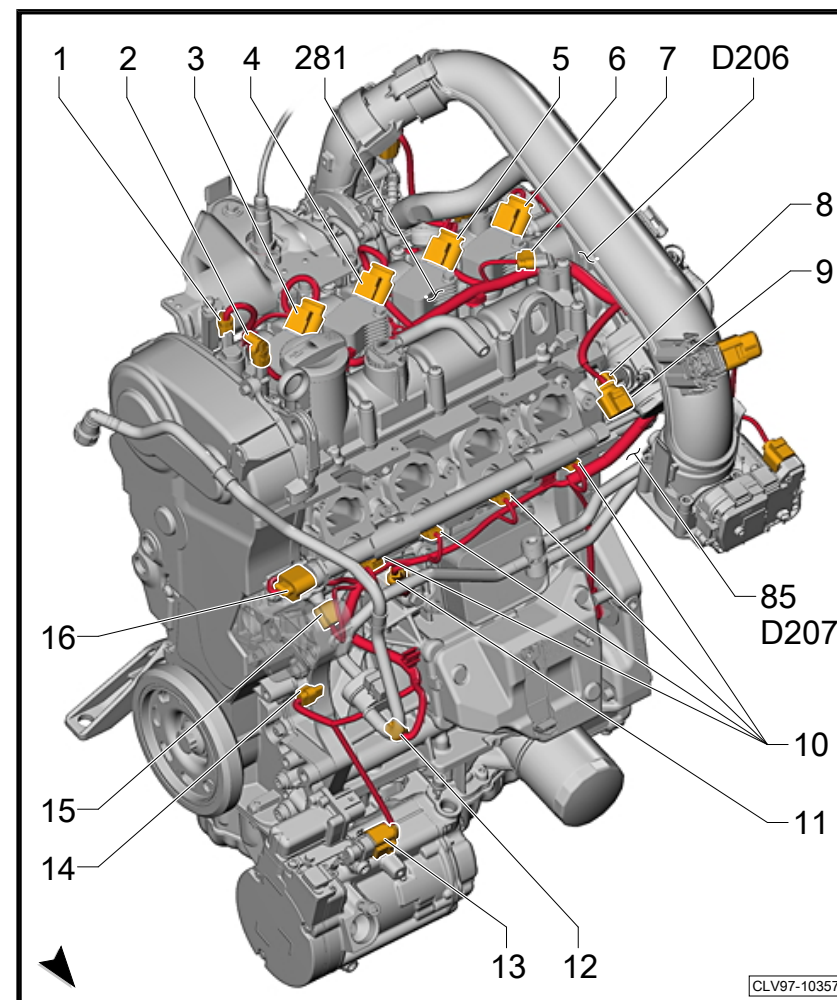
1.1 Engine

- ◆ ⇒ [“1.1.1 1.4L TSI Hybrid, CNLA Top”, page 2](#)
- ◆ ⇒ [“1.1.2 1.4L TSI Hybrid, CNLA Left”, page 3](#)
- ◆ ⇒ [“1.1.3 1.4L TSI Hybrid, CNLA Rearview”, page 4](#)
- ◆ ⇒ [“1.1.4 1.4L TSI Hybrid, CNLA Right”, page 5](#)
- ◆ ⇒ [“1.1.5 1.8L TFSI, CPKA/CPRA Top”, page 6](#)
- ◆ ⇒ [“1.1.6 1.8L TFSI, CPKA/CPRA Right”, page 7](#)
- ◆ ⇒ [“1.1.7 1.8L TFSI, CPKA/CPRA Left”, page 8](#)
- ◆ ⇒ [“1.1.8 1.8L TFSI, CPKA/CPRA Rearview”, page 9](#)
- ◆ ⇒ [“1.1.9 2.0L TFSI, CPLA/CPPA Top”, page 10](#)
- ◆ ⇒ [“1.1.10 2.0L TFSI, CPLA/CPPA Right”, page 11](#)
- ◆ ⇒ [“1.1.11 2.0L TFSI, CPLA/CPPA Left”, page 12](#)
- ◆ ⇒ [“1.1.12 2.0L TFSI, CPLA/CPPA Rearview”, page 13](#)
- ◆ ⇒ [“1.1.13 2.0L TDI, CJAA Top”, page 14](#)
- ◆ ⇒ [“1.1.14 2.0L TDI, CJAA Rearview”, page 15](#)
- ◆ ⇒ [“1.1.15 2.0L TDI, CJAA Left”, page 16](#)
- ◆ ⇒ [“1.1.16 2.0L SRE, CBPA Front”, page 17](#)
- ◆ ⇒ [“1.1.16 2.0L SRE, CBPA Front”, page 17](#)
- ◆ ⇒ [“1.1.17 2.0L SRE, CBPA Rearview, left”, page 17](#)
- ◆ ⇒ [“1.1.18 2.0L TFSI, CCTA/CBFA Front”, page 19](#)

- ◆ ⇒ ["1.1.19 2.0L TFSI, CCTA/CBFA Rearview right", page 20](#)
- ◆ ⇒ ["1.1.21 2.5I SRE, CBTA/CBUA Top", page 22](#)
- ◆ ⇒ ["1.1.22 2.5L FSI, CBTA/CBUA Rearview", page 23](#)
- ◆ ⇒ ["1.1.23 2.5L FSI, CBTA/CBUA Front", page 24](#)

1.1.1 1.4L TSI Hybrid, CNLA Top

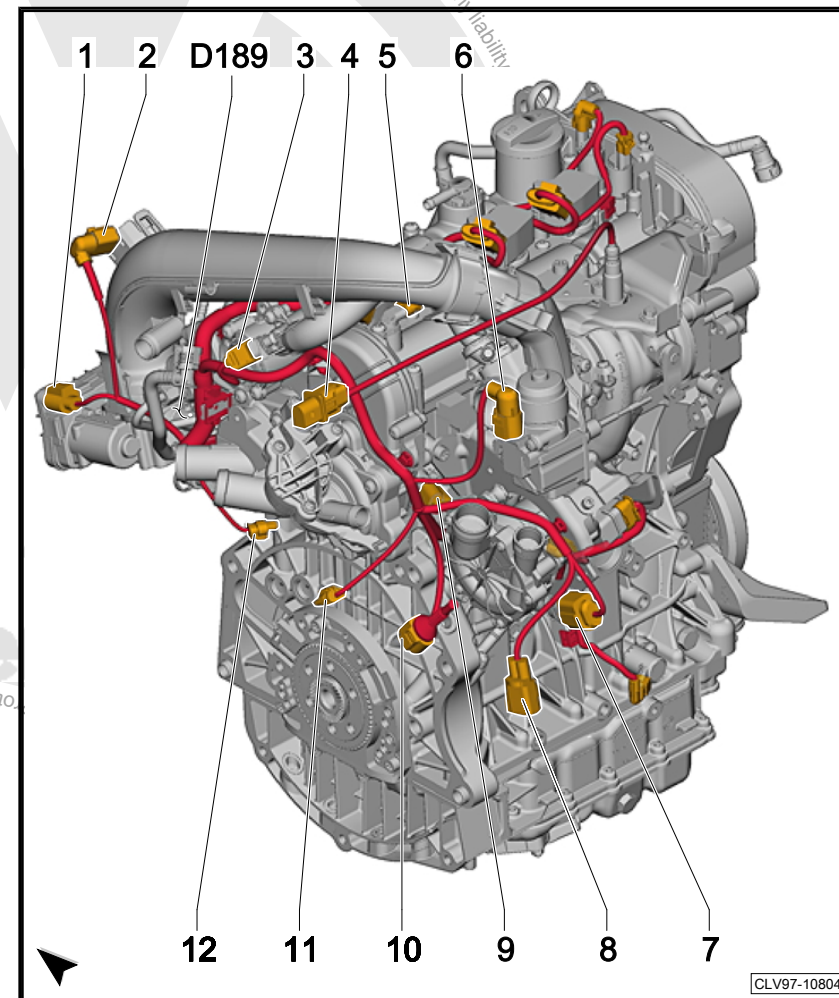
- 1 - Exhaust camshaft adjustment valve 1 - N318-
- 2 - Camshaft adjustment valve 1 -N205-
- 3 - Ignition coil 1 with power output stage - N70-
- 4 - Ignition coil 2 with power output stage - N127-
- 5 - Ignition coil 3 with power output stage - N291-
- 6 - Ignition coil 4 with power output stage - N292-
- 7 - Camshaft position sensor -G40-
- 7 - Camshaft position sensor 3 -G300- opposite camshaft position sensor
- 8 - Fuel pressure regulator valve -N276-
- 9 - Intake manifold sensor -GX9-
- 9 - Manifold absolute pressure sensor -G71-
- 9 - Intake air temperature sensor -G42-
- 10 - Cylinder 1 fuel injector - N30-
- 11 - Knock sensor 1 -G61-
- 12 - EVAP canister purge regulator valve 1 -N80-
- 13 - A/C compressor control module -J842- See Hybrid System ⇒ [page 36](#)
- 13 - Electrical A/C compressor -V470-
- 14 - Low temperature circuit coolant pump - V468-
- 15 - Reduced oil pressure switch -F378-
- 16 - Fuel pressure sensor -G247-
- 85 - Ground connection 1 (in engine compartment wiring harness)
- 281 - Ground connection 1 (in engine wiring harness)
- D206 - Connection 87a (in engine wiring harness) 4



D207 - Connection 87a (in engine compartment wiring harness) 7

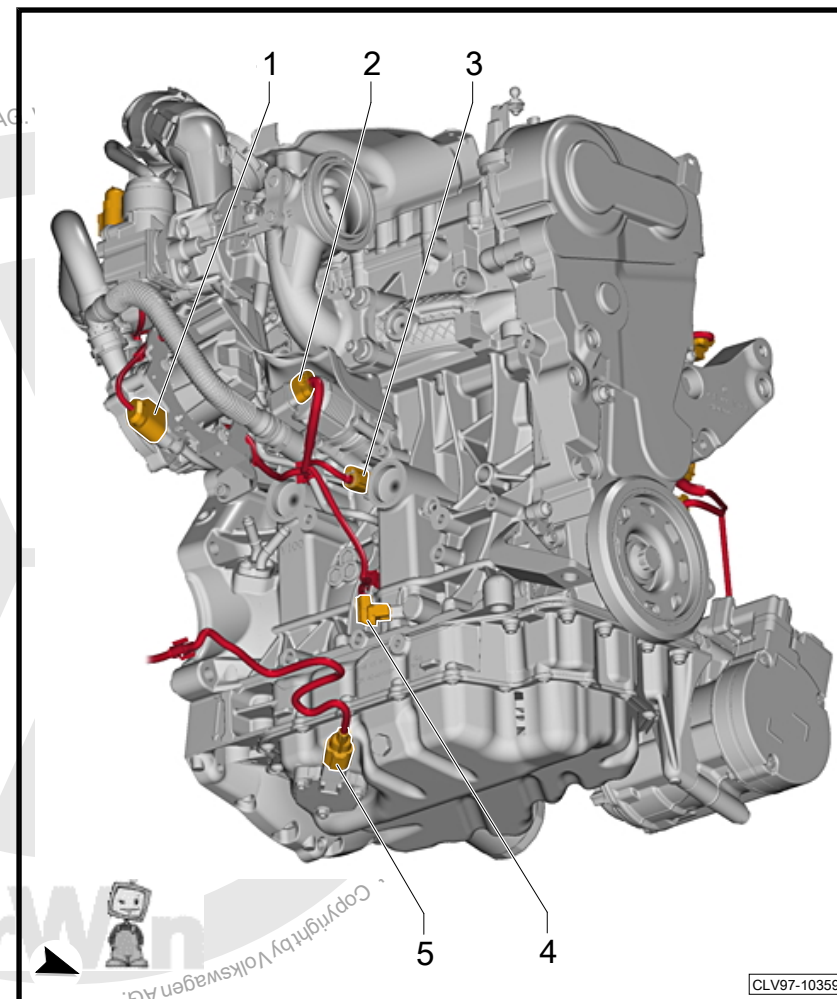
1.1.2 1.4L TSI Hybrid, CNLA Left

- 1 - Throttle valve control module -J338-
- 1 - EPC throttle drive -G186-
- 1 - EPC throttle drive angle sensor 1 -G187-
- 1 - EPC throttle drive angle sensor 2 -G188-
- 2 - Charge air pressure sensor - GX26-
- 2 - Intake air temperature sensor 2 - G299-
- 2 - Manifold absolute pressure sensor 2 -G429-
- 2 - Charge air pressure sensor -G31-
- 3 - Positive crankcase ventilation heating element - N79-
- 4 - 6-pin connector - T6w-
- 5 - Camshaft position sensor 2 -G163-
- 6 - Charge pressure actuator position sensor - G581-
- 6 - Charge pressure actuator - V465-
- 7 - Secondary air injection pump motor
- 8 - Brake system vacuum pump
- 9 - Engine coolant temperature sensor -G62-
- 10 - Drive motor rotor position sensor 1
- 11 - Connector for High temperature circuit coolant pump -V467-
- 12 - Three-phase current drive
- 12 - Drive motor temperature sensor -G712-
- D189 - Connection 87a (in engine wiring harness)



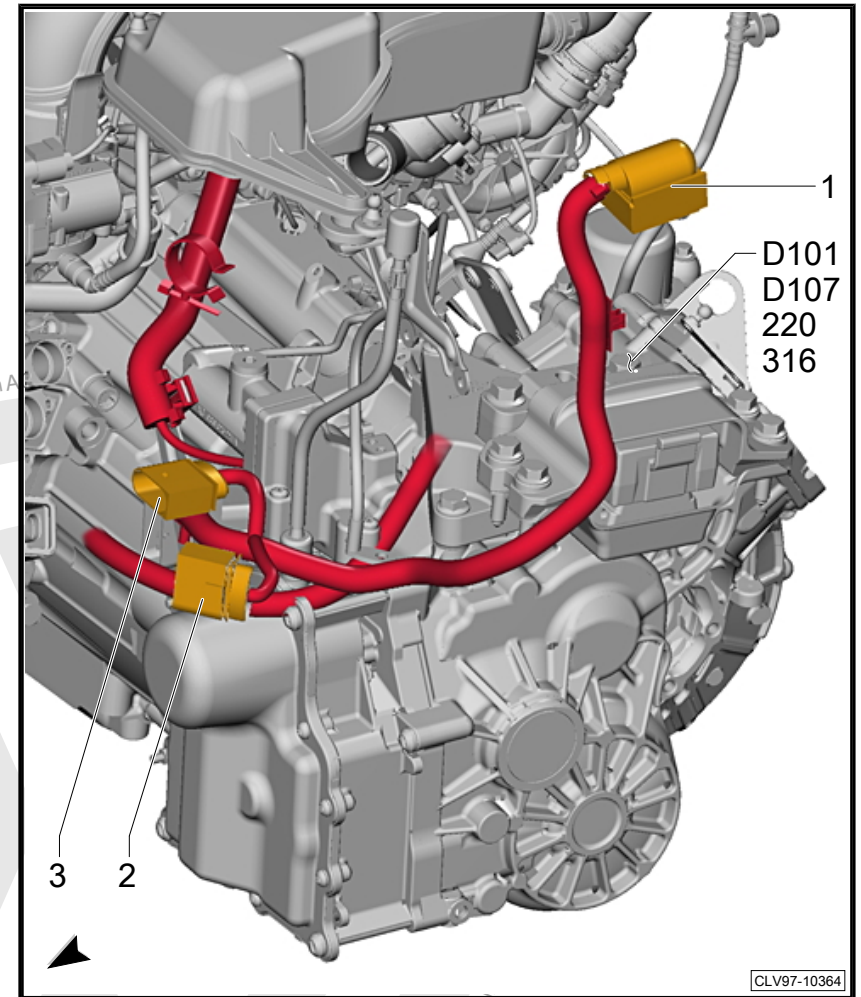
1.1.3 1.4L TSI Hybrid, CNLA Rearview

- 1 - Secondary air injection pump motor -V101-
- 2 - Secondary air injection sensor 1 -G609-
- 2 - Secondary air injection solenoid valve -N112-
- 3 - Oil pressure switch - F1-
- 4 - Oil pressure regulation valve - N428-
- 5 - Oil level thermal sensor -G266-



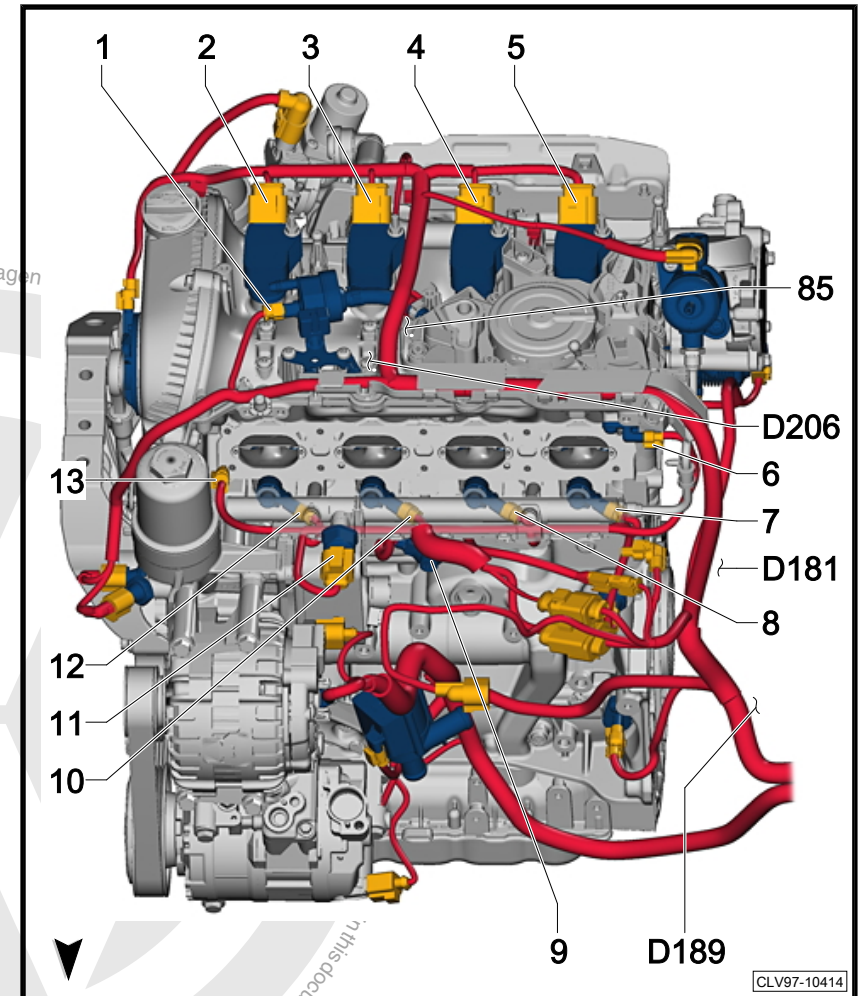
1.1.4 1.4L TSI Hybrid, CNLA Right

- 1 - Engine control module - J623-
- 2 - 14-pin connector - T14hy-
- 3 - 14-pin connector - T14-
- 220 - Sensor ground connection (in engine compartment wiring harness)
- 316 - Sensor ground connection 2 (in engine wiring harness)
- D101 - Connection 1 (in engine compartment wiring harness)
- D107 - Connection 5 (in engine compartment wiring harness)



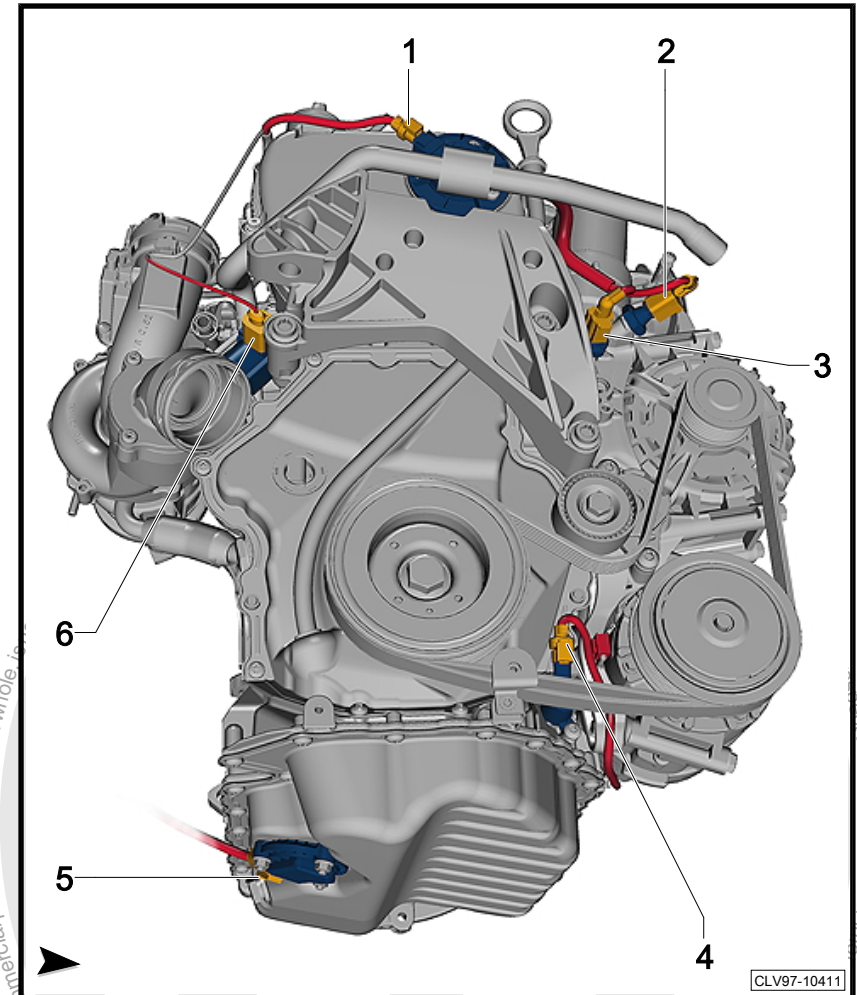
1.1.5 1.8L TFSI, CPKA/CPRA Top

- 1 - EVAP canister purge regulator valve 1 -N80-
- 2 - Ignition coil 1 with power output stage -N70-
- 3 - Ignition coil 2 with power output stage -N127-
- 4 - Ignition coil 3 with power output stage -N291-
- 5 - Ignition coil 4 with power output stage -N292-
- 6 - Camshaft position sensor -G40-
- 7 - Cylinder 4 fuel injector -N33-
- 8 - Cylinder 3 fuel injector -N32-
- 9 - Knock sensor 1 -G61-
- 10 - Cylinder 2 fuel injector -N31-
- 11 - Fuel pressure sensor -G247-
- 12 - Cylinder 1 fuel injector -N30-
- 13 - Intake manifold runner position sensor -G336-
- 85 - Ground connection 1 (in engine compartment wiring harness)
- D181 - Connection 2 (87a) (in engine compartment wiring harness)
- D189 - Connection (87a) (in engine wiring harness)
- D206 - Connection 4 (87a) (in engine wiring harness)



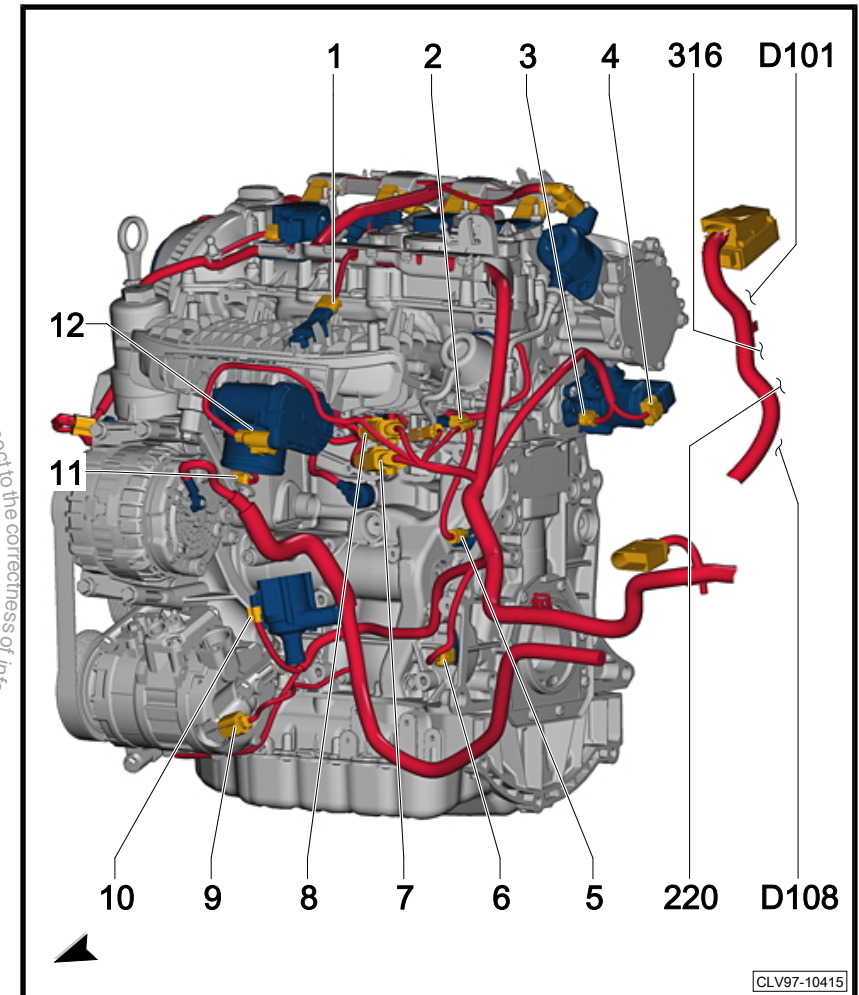
1.1.6 1.8L TFSI, CPKA/CPRA Right

- 1 - Camshaft adjustment valve 1 -N205-
- 2 - Reduced oil pressure switch -F378-
- 3 - Oil pressure switch -F22-
- 4 - Oil pressure regulation valve -N428-
- 5 - Oil level thermal sensor -G266-
- 6 - Turbocharger recirculation valve -N249-



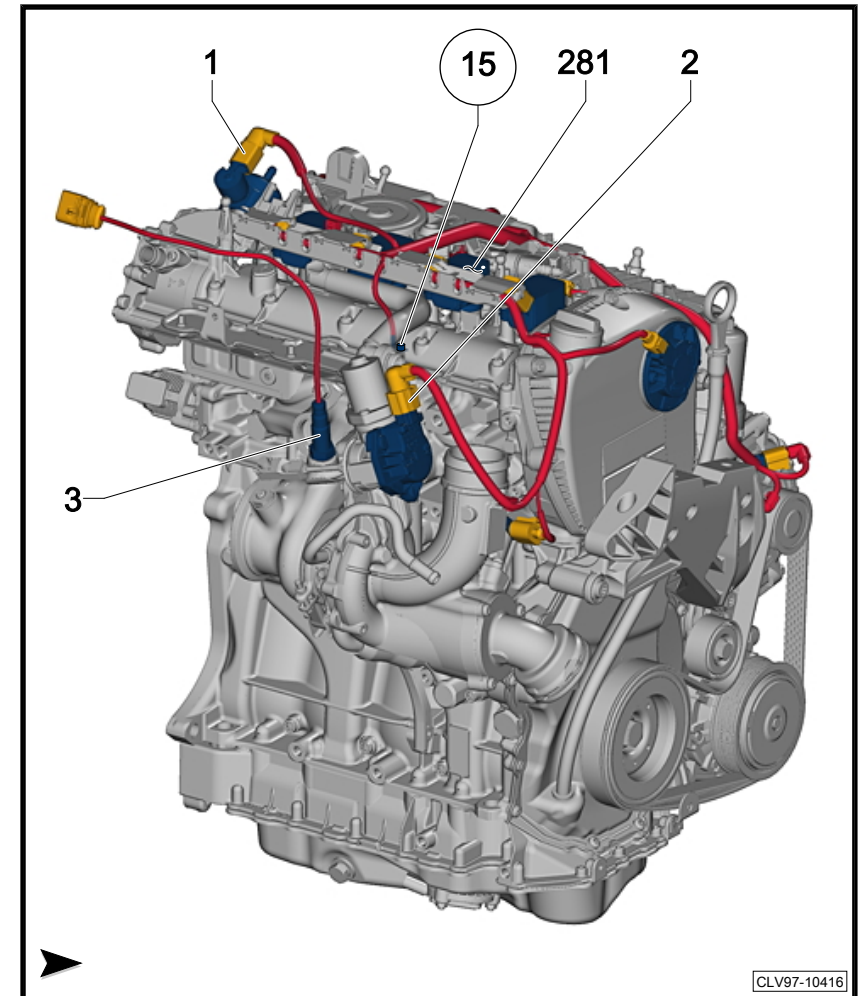
1.1.7 1.8L TFSI, CPKA/CPRA Left

- 1 - Intake manifold sensor -GX9-
- 1 - Intake air temperature sensor -G42-
- 1 - Manifold absolute pressure sensor -G71-
- 1 - Charge air pressure sensor -G31- on intake breather hose (not shown)
- 2 - Intake manifold runner control valve -N316-
- 3 - Engine coolant temperature sensor -G62-
- 4 - Secondary air system -GX24-
- 4 - Secondary air injection solenoid valve -N112-
- 4 - Secondary air injection sensor 1 -G609-
- 4 - Secondary air injection sensor 2 -G610-
- 5 - Oil pressure switch, level 3 -F447-
- 6 - Engine speed sensor -G28-
- 7 - 14-pin connector -T14a-
- 8 - 8-pin connector -T8i- fuel injectors connector
- 9 - A/C compressor regulator valve -N280-
- 10 - After-run coolant pump -V51-
- 11 - Generator with voltage regulator -CX1-
- 12 - Throttle valve control module -GX3-
- 12 - Throttle valve control module -J338-
- 12 - EPC throttle drive -G186-
- 12 - EPC throttle drive angle sensor 1 -G187-
- 12 - EPC throttle drive angle sensor 2 -G188-
- D101 - Connection (1) (in engine compartment wiring harness)
- D108 - Connection (6) (in engine compartment wiring harness)
- 220 - Sensor ground connection (in engine compartment wiring harness)
- 316 - Sensor ground connection 2 (in engine wiring harness)



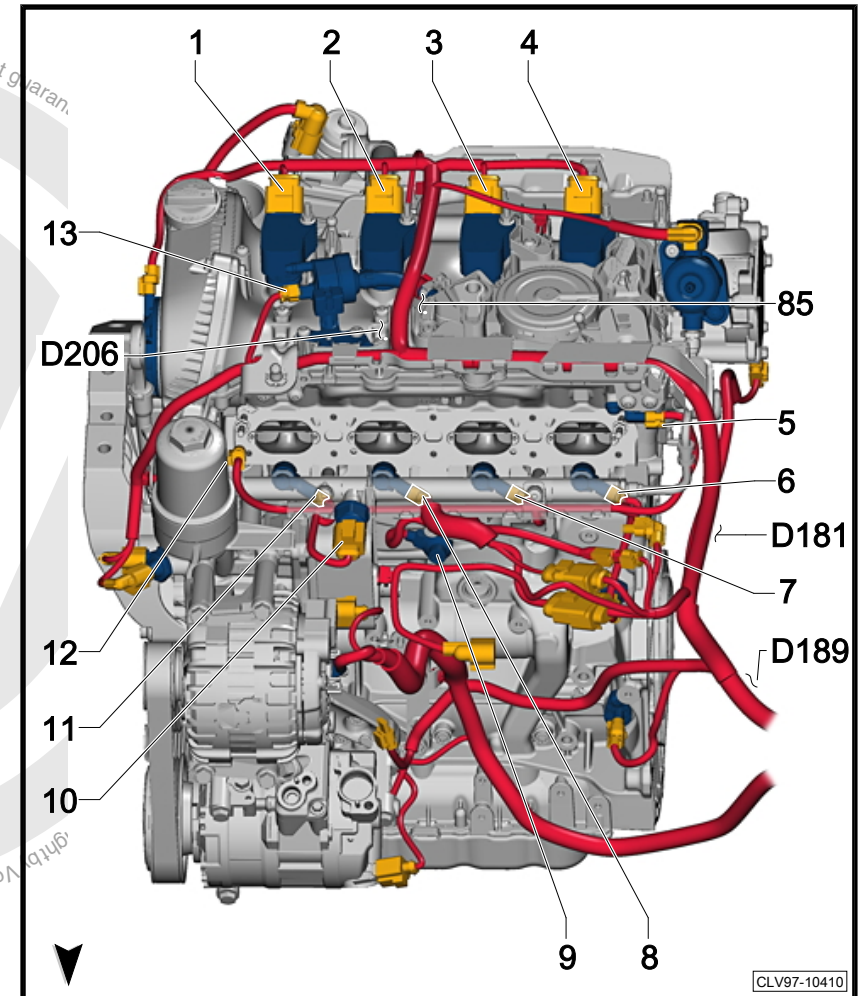
1.1.8 1.8L TFSI, CPKA/CPRA Rearview

- 1 - Fuel pressure regulator valve -N276-
- 2 - Charge pressure actuator -V465-
- 3 - Heated oxygen sensor
- 15 - Ground connection on cylinder head
- 281 - Ground connection 1 (in engine wiring harness)



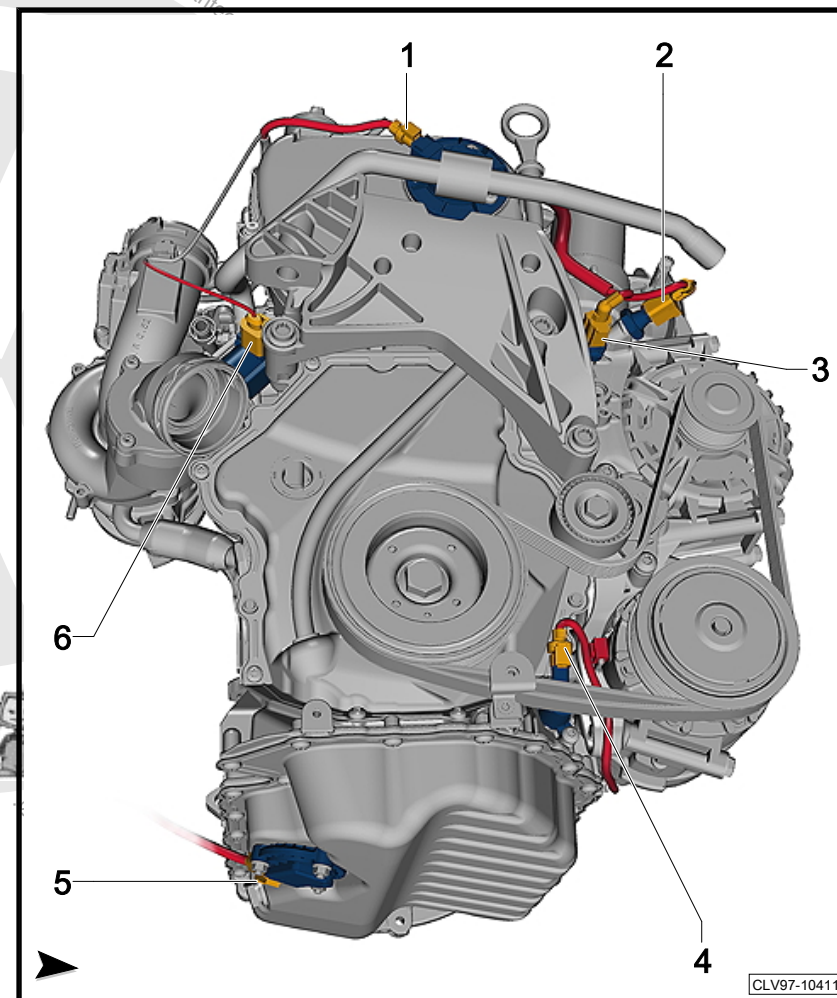
1.1.9 2.0L TFSI , CPLA/CPPA Top

- 1 - Ignition coil 1 with power output stage -N70-
- 2 - Ignition coil 2 with power output stage -N127-
- 3 - Ignition coil 3 with power output stage -N291-
- 4 - Ignition coil 4 with power output stage -N292-
- 5 - Camshaft position sensor -G40-
- 6 - Cylinder 4 fuel injector -N33-
- 7 - Cylinder 3 fuel injector -N32-
- 8 - Cylinder 2 fuel injector -N31-
- 9 - Knock sensor 1 -G61-
- 10 - Fuel pressure sensor -G247-
- 11 - Cylinder 1 fuel injector -N30-
- 12 - Intake manifold runner position sensor -G336-
- 13 - EVAP canister purge regulator valve 1 -N80-
- 85 - Ground connection 1 (in engine compartment wiring harness)
- D181 - Connection 2 (87a) (in engine compartment wiring harness)
- D189 - Connection (87a) (in engine wiring harness)
- D206 - Connection 4 (87a) (in engine wiring harness)



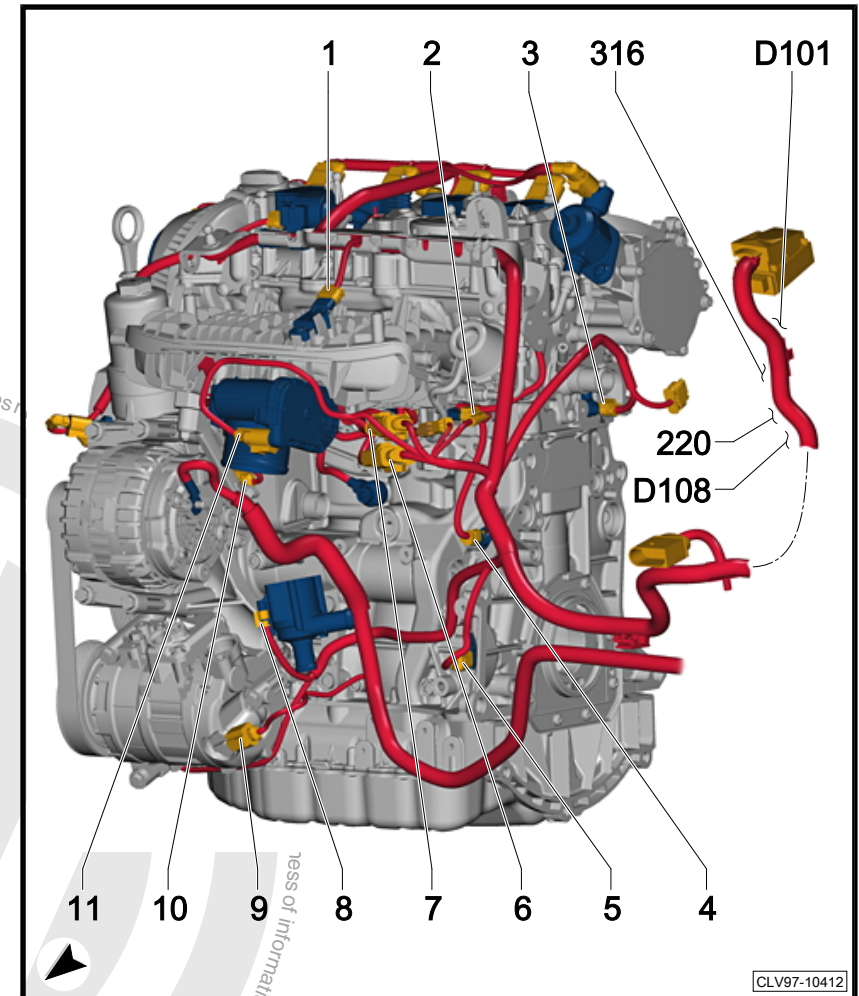
1.1.10 2.0L TFSI, CPLA/CPPA Right

- 1 - Camshaft adjustment valve 1 -N205-
- 2 - Reduced oil pressure switch -F378-
- 3 - Oil pressure switch -F22-
- 4 - Oil pressure regulation valve -N428-
- 5 - Oil level thermal sensor -G266-
- 6 - Turbocharger recirculation valve -N249-



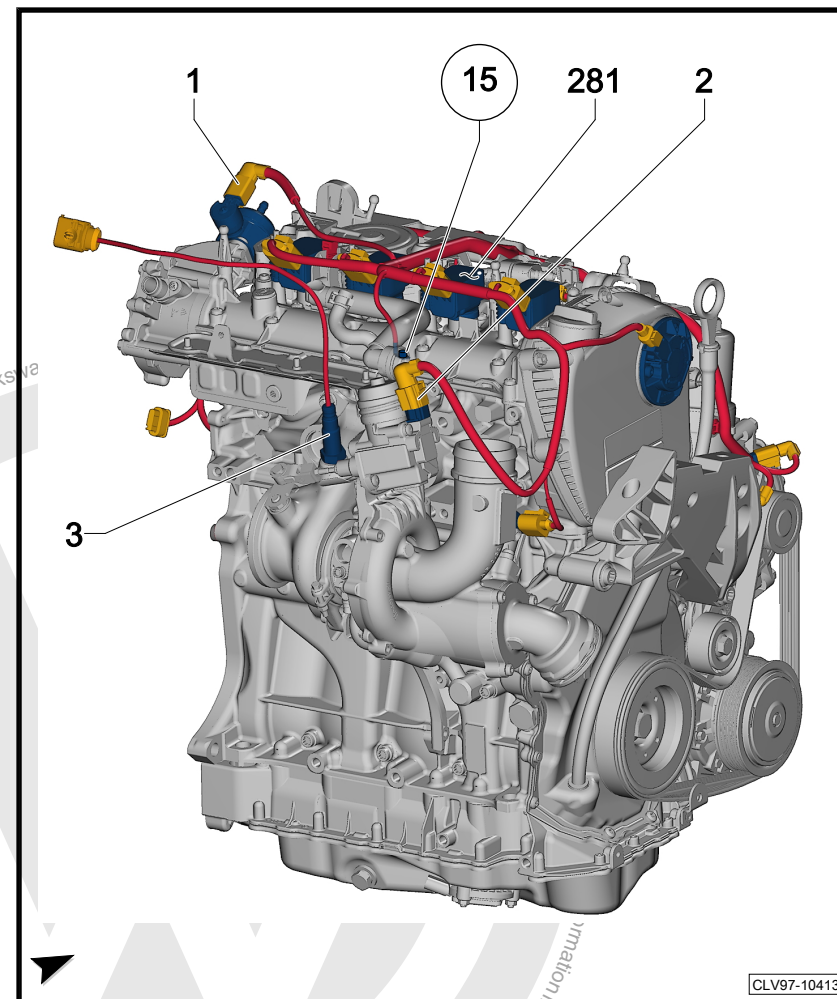
1.1.11 2.0L TFSI, CPLA/CPPA Left

- 1 - Intake manifold sensor -GX9-
- 1 - Intake air temperature sensor -G42-
- 1 - Manifold absolute pressure sensor -G71-
- 1 - Charge air pressure sensor -G31- on intake breather hose (not shown)
- 2 - Intake manifold runner control valve -N316-
- 3 - Engine coolant temperature sensor -G62-
- 3 - Secondary air system -GX24- not shown
- 3 - Secondary air injection solenoid valve -N112- not shown
- 3 - Secondary air injection sensor 1 -G609- not shown
- 3 - Secondary air injection sensor 2 -G610- not shown
- 4 - Oil pressure switch, level 3 -F447-
- 5 - Engine speed sensor -G28-
- 6 - 14-pin connector -T14a-
- 7 - 8-pin connector -T8i- fuel injectors connector
- 8 - After-run coolant pump -V51-
- 9 - A/C compressor regulator valve -N280-
- 10 - Generator with voltage regulator -CX1-
- 12 - Throttle valve control module -GX3-
- 12 - Throttle valve control module -J338-
- 12 - EPC throttle drive -G186-
- 12 - EPC throttle drive angle sensor 1 -G187-
- 12 - EPC throttle drive angle sensor 2 -G188-
- D101 - Connection (1) (in engine compartment wiring harness)
- D108 - Connection (6) (in engine compartment wiring harness)
- 220 - Sensor ground connection (in engine compartment wiring harness)
- 316 - Sensor ground connection 2 (in engine wiring harness)



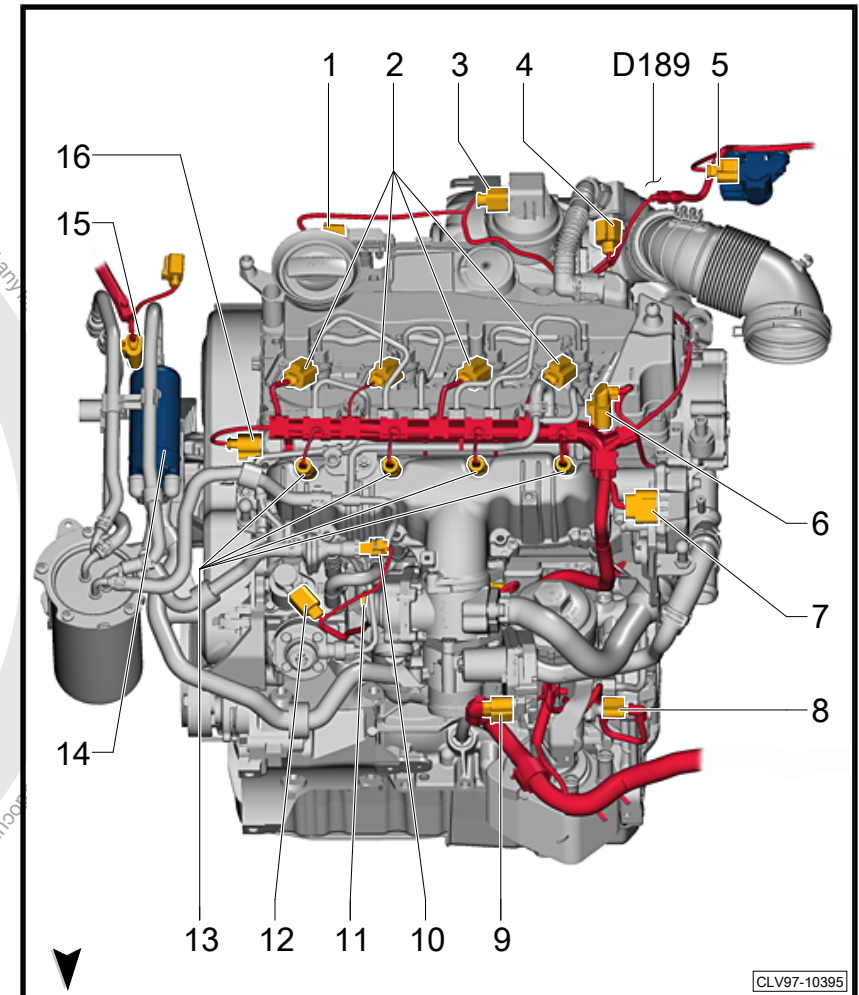
1.1.12 2.0L TFSI, CPLA/CPPA Rearview

- 1 - Fuel metering valve -N290-
- 1 - Fuel pressure regulator valve -N276-
- 2 - Charge pressure actuator -V465-
- 3 - Heated oxygen sensor -G39-
- 15 - Ground connection on cylinder head
- 281 - Ground connection 1 (in engine wiring harness)



1.1.13 2.0L TDI, CJAA Top

- 1 - Exhaust pressure sensor 1
- 2 - Fuel Injectors
- 3 - Charge pressure actuator position sensor -G581-
- 4 - Positive crankcase ventilation heating element -N79-
- 5 - Wastegate bypass regulator valve -N75-
- 6 - Fuel pressure regulator valve -N276-
- 7 - Intake manifold runner position sensor -G336-
- 7 - Intake flap motor -V157-
- 8 - Oil pressure switch -F1-
- 9 - Throttle valve control module -J338-
- 9 - Throttle position sensor -G69-
- 9 - Charge air pressure sensor -G31- on intake breather hose (not shown)
- 9 - . Intake air temperature sensor -G42- on intake breather hose (not shown)
- 10 - Fuel temperature sensor -G81-
- 11 - EGR potentiometer -G212-
- 11 - EGR vacuum regulator solenoid valve -N18-
- 12 - Fuel metering valve -N290-
- 13 - Cylinder 1 internal pressure sensor -G620-
- 13 - Glow plug 1 -Q10-
- 13 - Cylinder 2 internal pressure sensor -G621-
- 13 - Glow plug 2 -Q11-
- 13 - Cylinder 3 internal pressure sensor -G622-
- 13 - Glow plug 3 -Q12-
- 13 - Cylinder 4 internal pressure sensor -G623-
- 13 - Glow plug 4 -Q13-
- 14 - Fuel pump 2 -V277-
- 15 - Exhaust pressure sensor 2



16 - Fuel pressure sensor -G247-

16 - Camshaft position sensor -G40- located under timing cover

D189 - Connection 87a (in engine wiring harness)

1.1.14 2.0L TDI, CJAA Rearview

1 - Engine coolant temperature sensor -G62-

2 - Mass airflow sensor -G70-

3 - Charge pressure actuator position sensor

4 - Exhaust pressure sensor 1

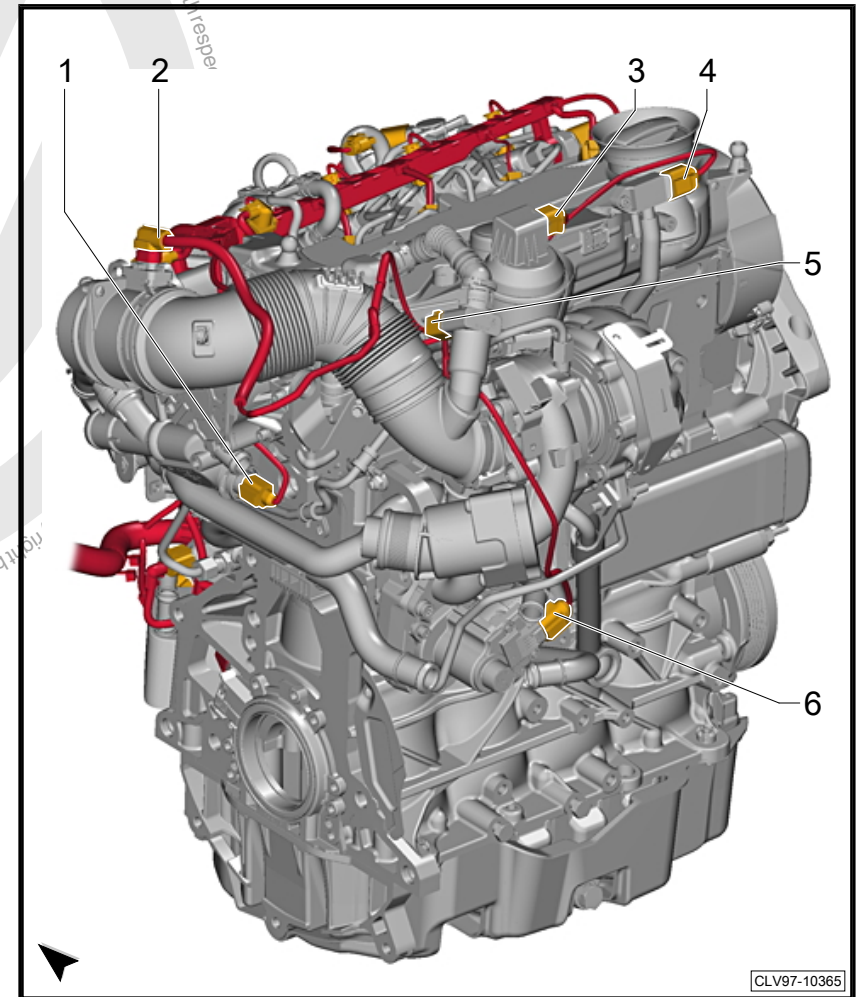
5 - Positive crankcase ventilation heating element -N79-

6 - Exhaust gas recirculation position sensor 2 -G466-

6 - Valve 2 for EGR -N213-

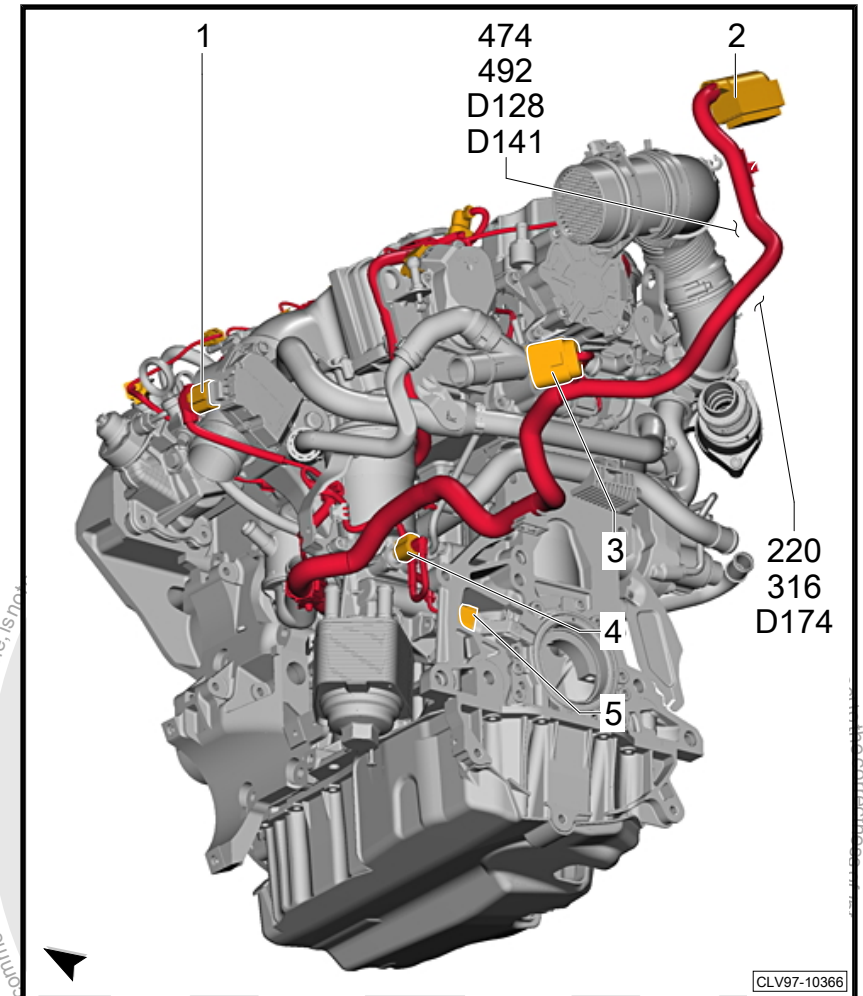
6 - EGR temperature sensor -G98- located near EGR valve

6 - EGR cooler switch-over valve -N345- located near EGR valve if equipped



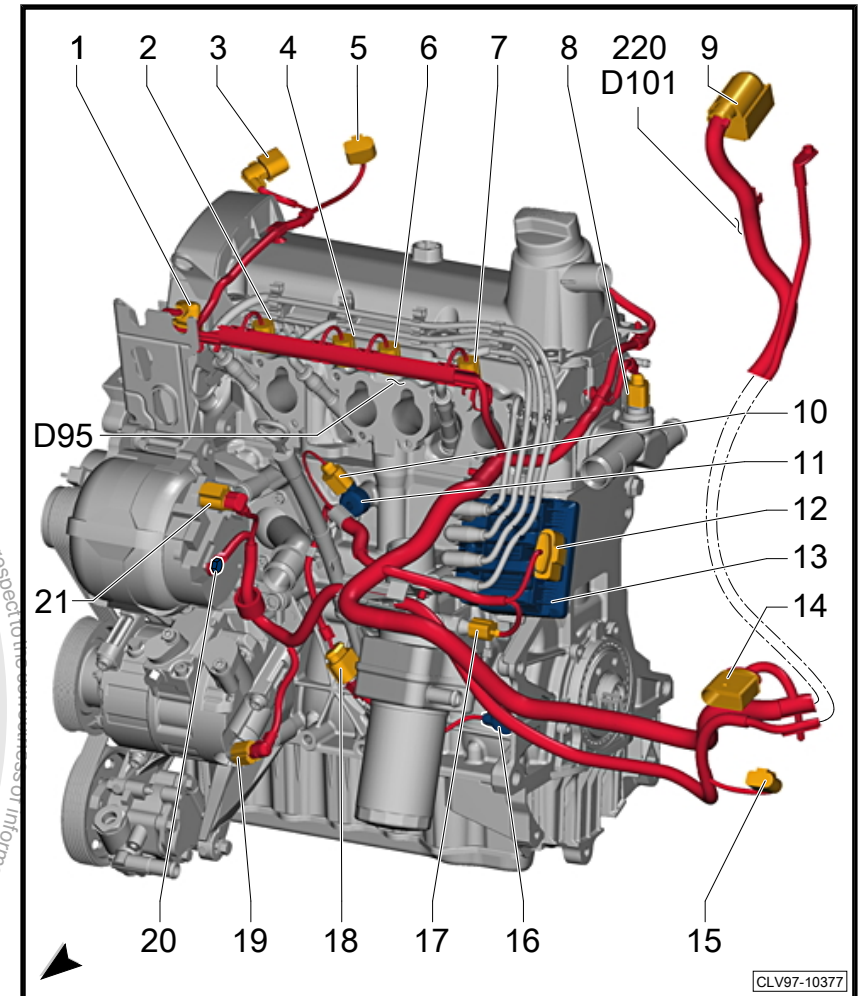
1.1.15 2.0L TDI, CJAA Left

- 1 - Throttle valve control module
- 1 - Throttle position sensor -G69-
- 2 - Engine control module -J623-
- 3 - 14-pin connector -T14-
- 4 - Oil pressure switch
- 5 - Engine speed sensor -G28-
- 220 - Sensor ground connection (in engine compartment wiring harness)
- 316 - Sensor ground connection 2 (in engine wiring harness)
- 474 - Sensor ground connection (in engine wiring harness)
- 492 - Sensor ground connection 2 (in fuel injection system wiring harness)
- D128 - Connection 26 (in engine wiring harness)
- D141 - Connection 5V (in engine wiring harness)
- D174 - Connection 5V (in engine wiring harness) 2



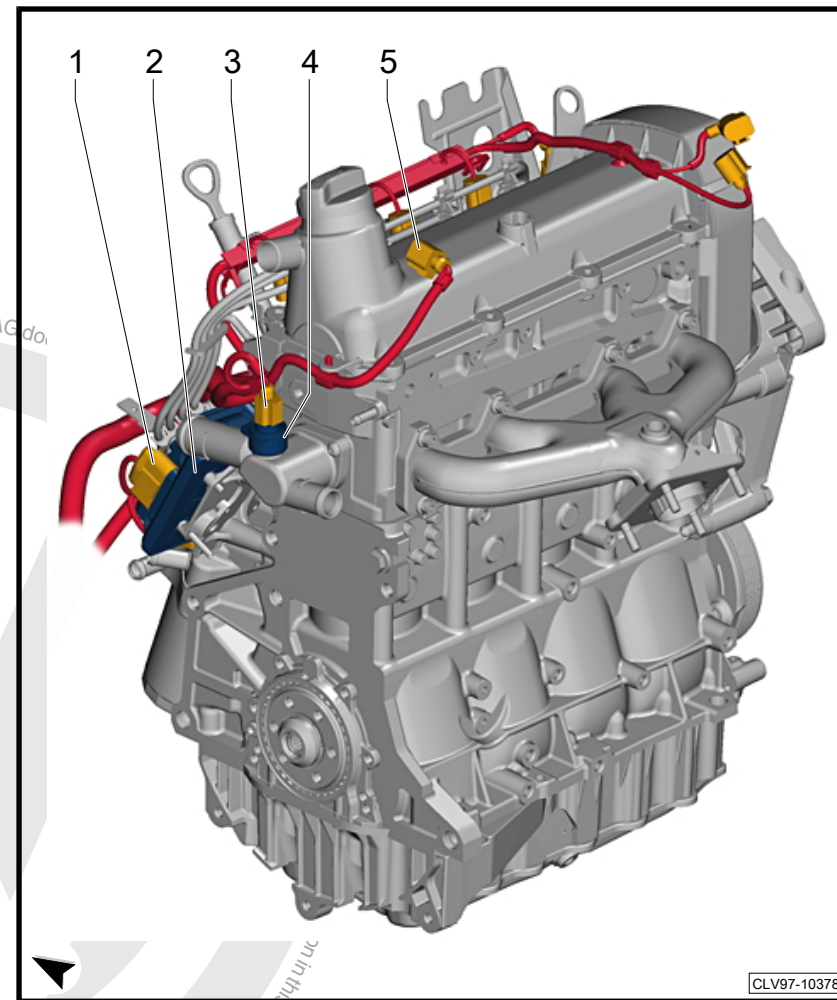
1.1.16 2.0L SRE, CBPA Front

- 1 - Camshaft position sensor -G40-
- 2 - Cylinder 1 fuel injector -N30-
- 3 - EVAP canister purge regulator valve 1 -N80-
- 4 - Cylinder 2 fuel injector -N31-
- 5 - Intake air temperature sensor -G42-
- 5 - Manifold absolute pressure sensor -G71-
- 6 - Cylinder 3 fuel injector -N32-
- 7 - Cylinder 4 fuel injector -N33-
- 8 - Engine coolant temperature sensor -G62-
- 9 - Engine control module -J623-
- 10 - Double connector -T2ex-
- 11 - Knock sensor 1 -G61-
- 12 - 4-pin connector -T4z-
- 13 - Ignition coil -N152-
- 14 - 14-pin connector -T14-
- 15 - 4-pin connector -T4t-
- 16 - Engine speed sensor -G28-
- 17 - Oil pressure switch -F1-
- 18 - 3-pin connector -T3ag-
- 19 - A/C compressor regulator valve -N280-
- 20 - Generator with voltage regulator -CX1-
- 21 - Generator with voltage regulator -CX1-
- 220 - Sensor ground connection (in engine compartment wiring harness)
- D95 - Injector connection (in engine compartment wiring harness)
- D101 - Connection 1 (in engine compartment wiring harness)



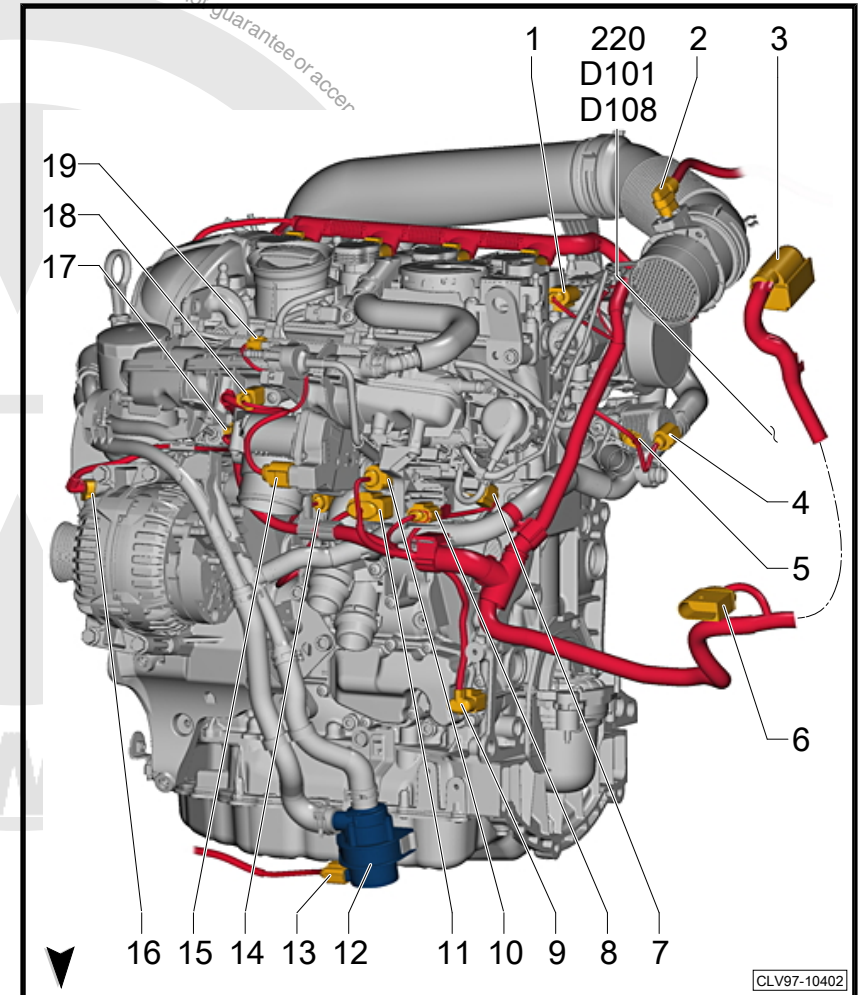
1.1.17 2.0L SRE, CBPA Rearview, left

- 1 - 4-pin connector -T4z-
- 2 - Ignition coil -N152-
- 3 - Double connector -T2dp-
- 4 - Engine coolant temperature sensor -G62-
- 5 - Throttle valve control module -J338-
- 5 - EPC throttle drive -G186-
- 5 - EPC throttle drive angle sensor 2 -G188-
- 5 - Throttle position sensor -G69-



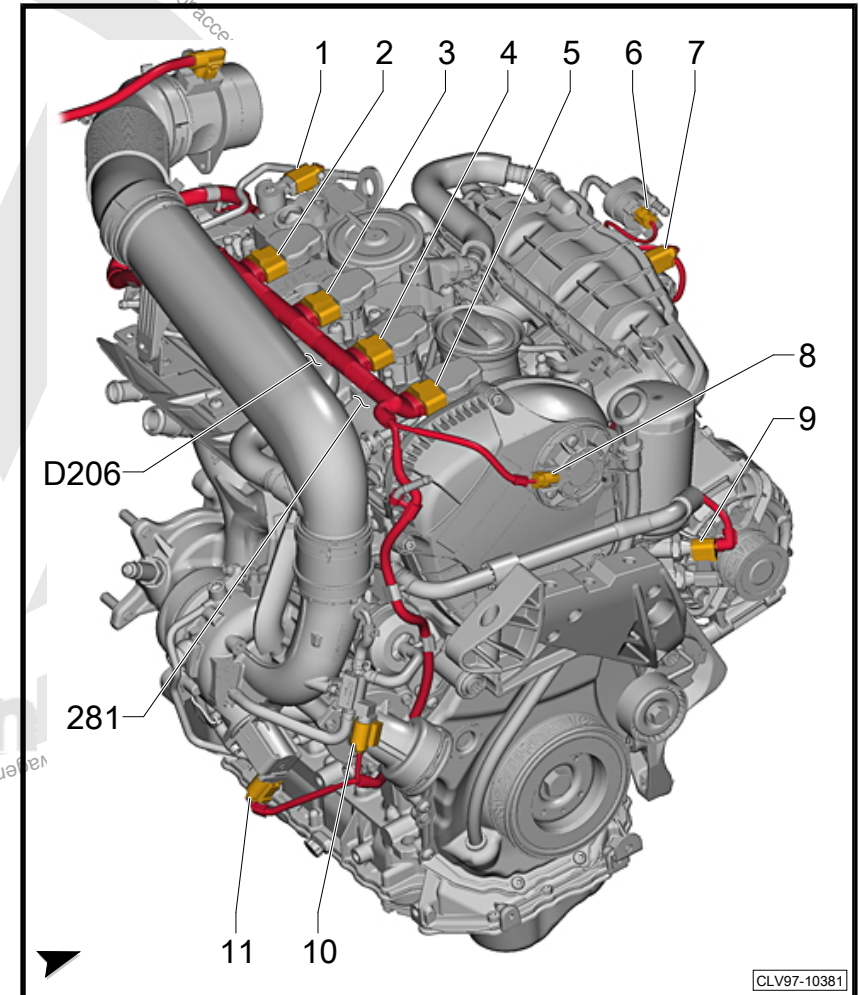
1.1.18 2.0L TFSI, CCTA/CBFA Front

- 1 - Fuel pressure regulator valve
- 2 - Mass airflow sensor -G70-
- 3 - Engine control module -J623-
- 4 - Secondary air injection solenoid valve -N112-
- 5 - Secondary air injection sensor 1 -G609-
- 6 - 14-pin connector -T14-
- 7 - Intake manifold runner control valve -N316-
- 8 - Knock sensor 1 -G61-
- 9 - Engine speed sensor
- 10 - 6-pin connector -T6aq-
- 11 - 8-pin connector -T8i- fuel injectors connector
- 12 - After-run coolant pump -V51-
- 13 - Double connector -T2cf-
- 14 - Engine coolant temperature sensor -G62-
- 15 - Throttle valve control module -J338-
- 15 - EPC throttle drive -G186-
- 15 - EPC throttle drive angle sensor 1 -G187-
- 15 - EPC throttle drive angle sensor 2 -G188-
- 16 - Oil pressure switch
- 17 - Fuel pressure sensor -G247-
- 18 - Intake air temperature sensor -G42-
- 19 - EVAP canister purge regulator valve 1
- 220 - Sensor ground connection (in engine compartment wiring harness)
- D101 - Connection 1 (in engine compartment wiring harness)
- D108 - Connection 6 (in engine compartment wiring harness)



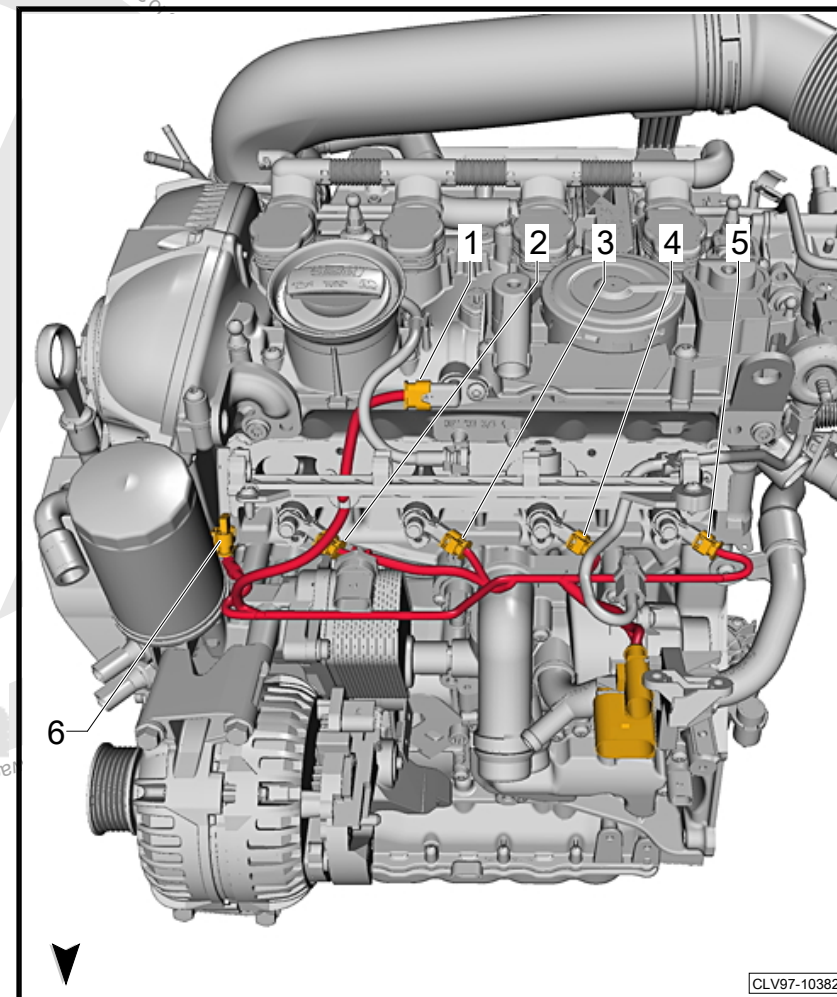
1.1.19 2.0L TFSI, CCTA/CBFA Rearview right

- 1 - Fuel pressure regulator valve
- 2 - Ignition coil 4 with power output stage -N292-
- 3 - Ignition coil 3 with power output stage -N291-
- 4 - Ignition coil 2 with power output stage -N127-
- 5 - Ignition coil 1 with power output stage -N70-
- 6 - EVAP canister purge regulator valve 1
- 7 - Intake air temperature sensor
- 8 - Camshaft adjustment valve 1 -N205-
- 9 - Oil pressure switch
- 10 - Wastegate bypass regulator valve -N75-
- 11 - Turbocharger recirculation valve -N249-
- 281 - Ground connection 1 (in engine wiring harness)
- D206 - Connection 87a (in engine wiring harness) 4



1.1.20 2.0L TFSI, CCTA/CBFA Top

- 1 - Camshaft position sensor -G40-
- 2 - Cylinder 1 fuel injector -N30-
- 3 - Cylinder 2 fuel injector -N31-
- 4 - Cylinder 3 fuel injector -N32-
- 5 - Cylinder 4 fuel injector -N33-
- 6 - Intake manifold runner position sensor -G336-
- 6 - Intake flap motor -V157-



CLV97-10382

1.1.21 2,5l SRE, CBTA/CBUA Top

1 - EVAP canister purge regulator valve 1 -N80-

2 - Camshaft position sensor

3 - Cylinder Fuel Injectors

4 - Ignition Coils

5 - Secondary air injection sensor 1 -G609-

6 - 3-pin connector -T3ak-

7 - Engine coolant temperature sensor -G62-

8 - 3-pin connector -T3y-

9 - Engine speed sensor connector

10 - Oil pressure switch -F22-

11 - Throttle valve control module

12 - Camshaft adjustment valve 1

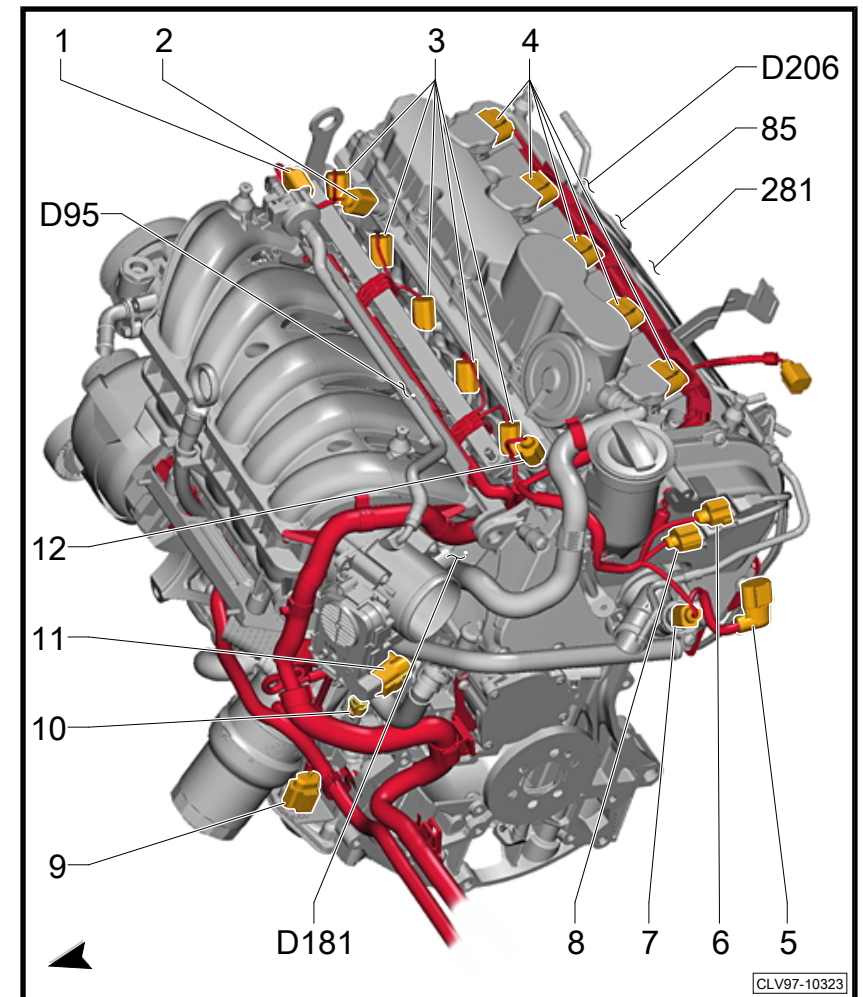
85 - Ground connection 1 (in engine compartment wiring harness)

281 - Ground connection 1 (in engine wiring harness)

D95 - Injector connection (in engine compartment wiring harness)

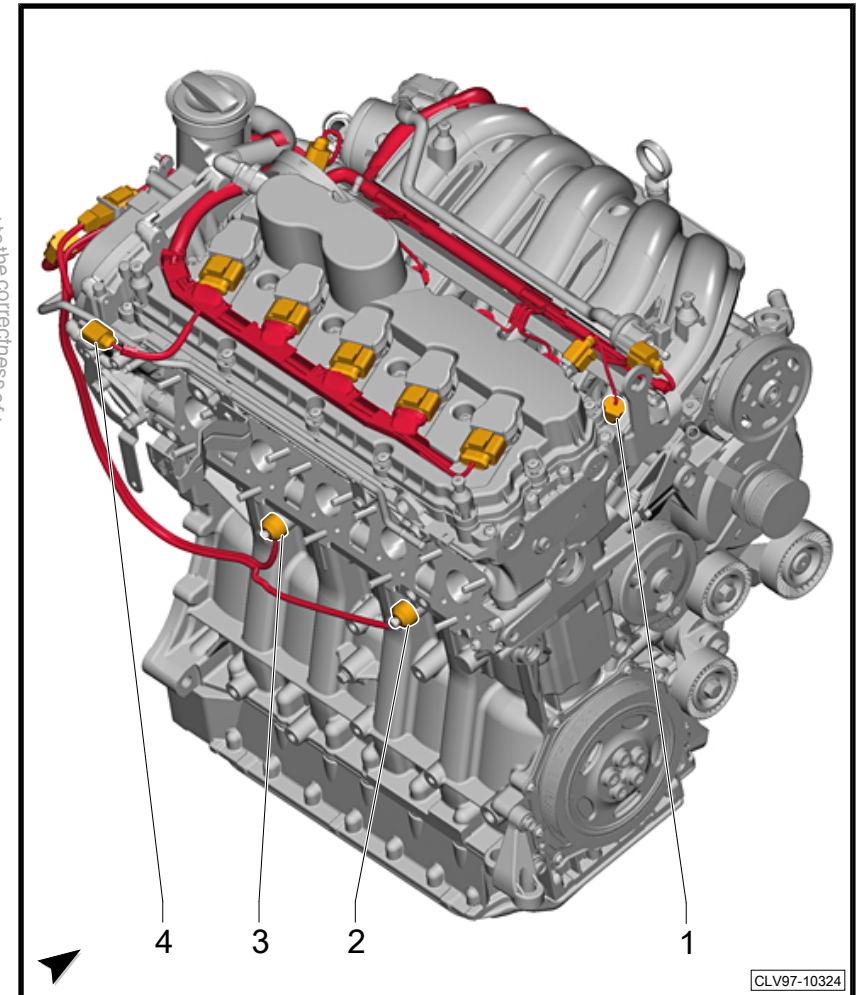
D181 - Connection 87a (in engine compartment wiring harness) 2

D206 - Connection 87a (in engine wiring harness) 4



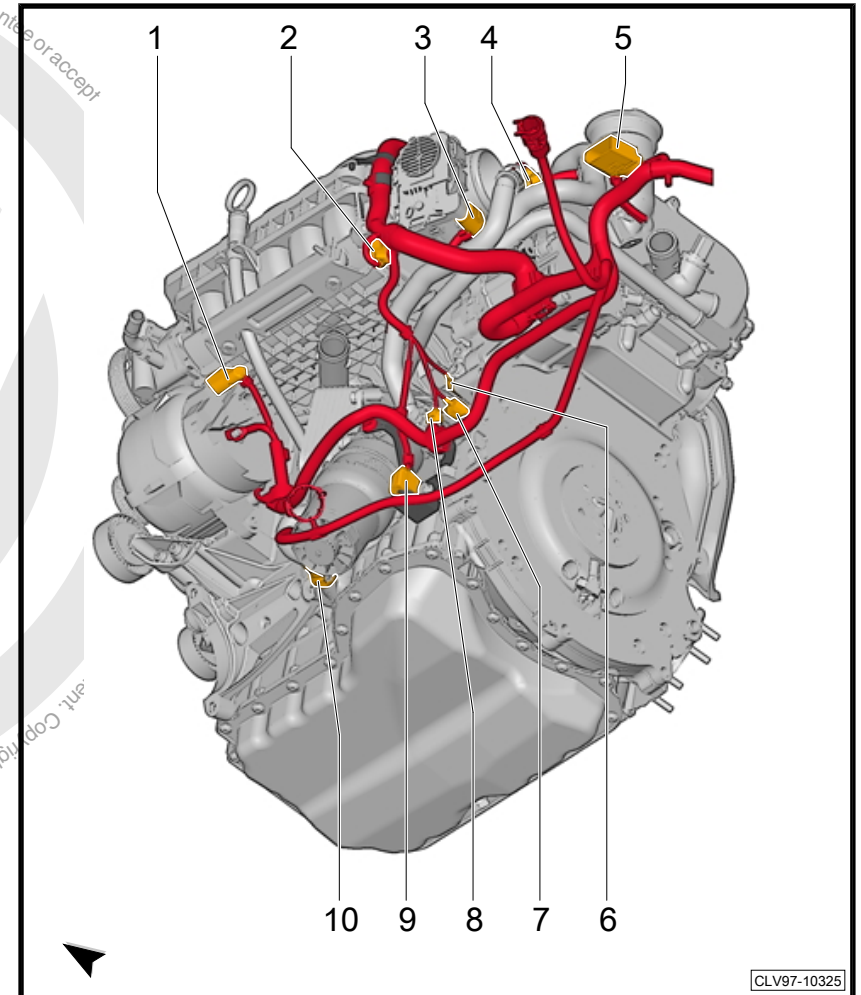
1.1.22 2.5L FSI, CBTA/CBUA Rearview

- 1 - Camshaft position sensor -G40-
- 2 - Knock sensor 1 -G61-
- 3 - Knock sensor 2 -G66-
- 4 - Secondary air injection solenoid valve -N112-



1.1.23 2.5L FSI, CBTA/CBUA Front

- 1 - Generator with voltage regulator -CX1-
- 2 - Intake air temperature sensor -G42-
- 2 - Manifold absolute pressure sensor -G71-
- 3 - Throttle valve control module -J338-
- 3 - EPC throttle drive -G186-
- 3 - EPC throttle drive angle sensor 2 -G188-
- 3 - Throttle position sensor -G69-
- 4 - Camshaft adjustment valve 1 -N205-
- 5 - 14-pin connector -T14-
- 6 - Oil pressure switch -F1-
- 7 - Reduced oil pressure switch -F378-
- 8 - Oil pressure regulation valve -N428-
- 9 - Engine speed sensor -G28-
- 10 - Engine preheating element -Z97-



1.2 Engine Compartment

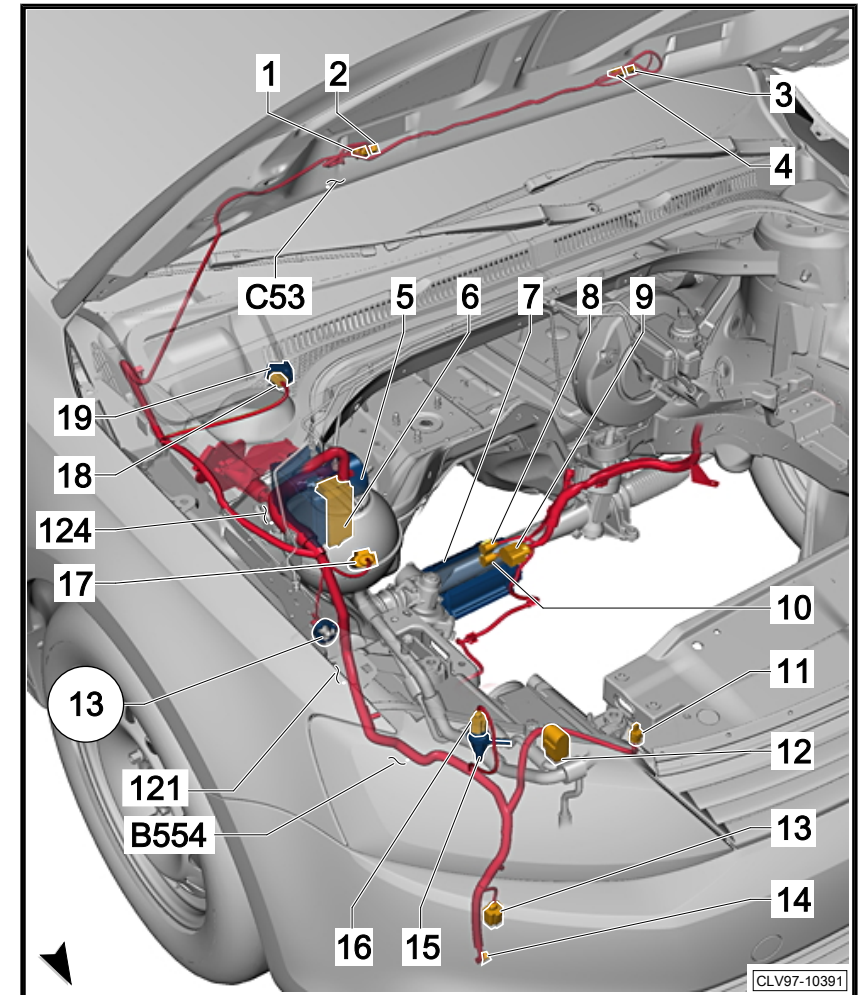
- ◆ ⇒ ["1.2.1 Engine compartment, passenger", page 25](#)
- ◆ ⇒ ["1.2.2 Engine compartment, driver I", page 27](#)

⇒ "1.2.3 Engine compartment, driver II", page 29

⇒ "1.2.4 Engine compartment, driver III", page 30

1.2.1 Engine compartment, passenger

- 1 - Double connector -T2bu-
- 2 - Right washer nozzle heater -Z21-
- 3 - Left washer nozzle heater -Z20-
- 4 - Double connector -T2bt-
- 5 - ABS control module -J104-
- 6 - 47-pin connector -T47- (Optional)
- 7 - Power steering control module -J500-
- 7 - Electromechanical power steering motor -V187-
- 7 - Steering angle sensor -G85-
- 7 - Steering torque sensor -G269-
- 8 - 3-pin connector -T3-
- 9 - Double connector -T2a-
- 10 - 5-pin connector -T5g-
- 11 - Passenger side front airbag crash sensor -G284-
- 12 - Right front headlamp
- 13 - Windshield washer pump -V5-
- 13 - Headlamp washer pump -V11- , located in washer reservoir.
- 14 - Windshield washer fluid level sensor -G33-
- 15 - High pressure sensor -G65-
- 16 - 3-pin connector -T3c-
- 17 - Engine coolant level sensor -G32-
- 18 - 3-pin connector -T3aw-
- 19 - Air quality sensor -G238-
- 13 - Ground connection in engine compartment, right
- 121 - Ground connection 2 (in right front wiring harness)



124 - Ground connection (in right engine compartment wiring harness)

B554 - Fog lamp connection (in main wiring harness)

C53 - Positive connection (x) (in heated spray nozzle wiring harness)



1.2.2 Engine compartment, driver I

- Battery monitoring control module -J367- , not shown. Located on battery positive connection to battery.

1 - Structure-borne sound actuator -R214-

2 - Alarm system horn -H18-

2 - Structure borne sound control module -J869- , not shown. Located on fire wall behind plenum chamber.

3 - 6-pin connector -T6w-

4 - Wiper motor control module -J400-

4 - Driver windshield wiper motor -V216-

5 - Alarm horn -H12-

6 - Engine control module -J623-

7 - Left front headlamp -MX1-

7 - Secondary air injection pump motor -V101- behind wheel noise insulation

□ For CNLA engine, refer to 1.4L CNLA Rearview

8 - Double connector -T2n-

9 - Driver front airbag crash sensor -G283-

10 - Outside air temperature sensor

11 - Coolant fan control module -J293-

11 - Coolant fan -V7-

11 - Coolant fan 2 -V177-

11 - Right coolant fan -V35-

11 - Coolant fan control thermal switch -F18-

12 - Double connector -T2i-

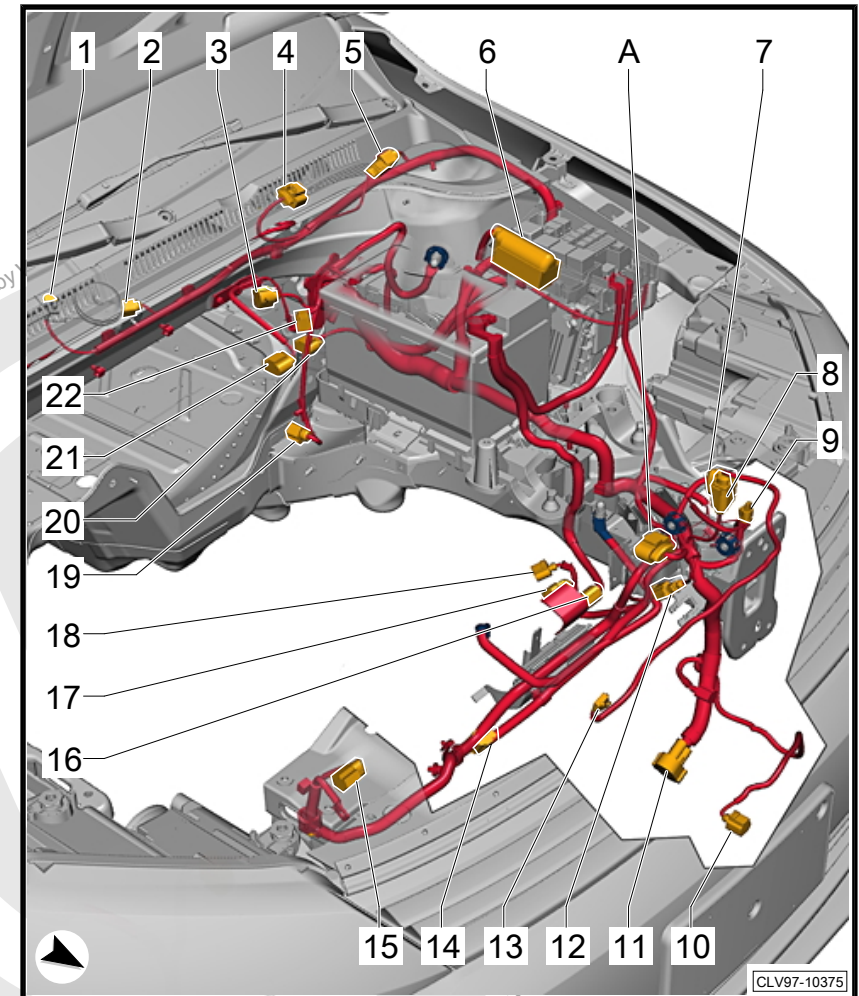
12 - 4-pin connector -T4t-

13 - Engine hood contact switch -F266-

15 - Generator with voltage regulator -CX1-

16 - Starter -B- - KI.50

17 - Starter -B- - KI.B+ (30)



18 - Back-up lamp switch -F4-

19 - Brake pedal switch -F47-

19 - Brake pedal switch -FX2-

19 - Brake lamp switch -F-

20 - Clutch position sensor -G476-

21 - Brake booster pressure sensor -G294-

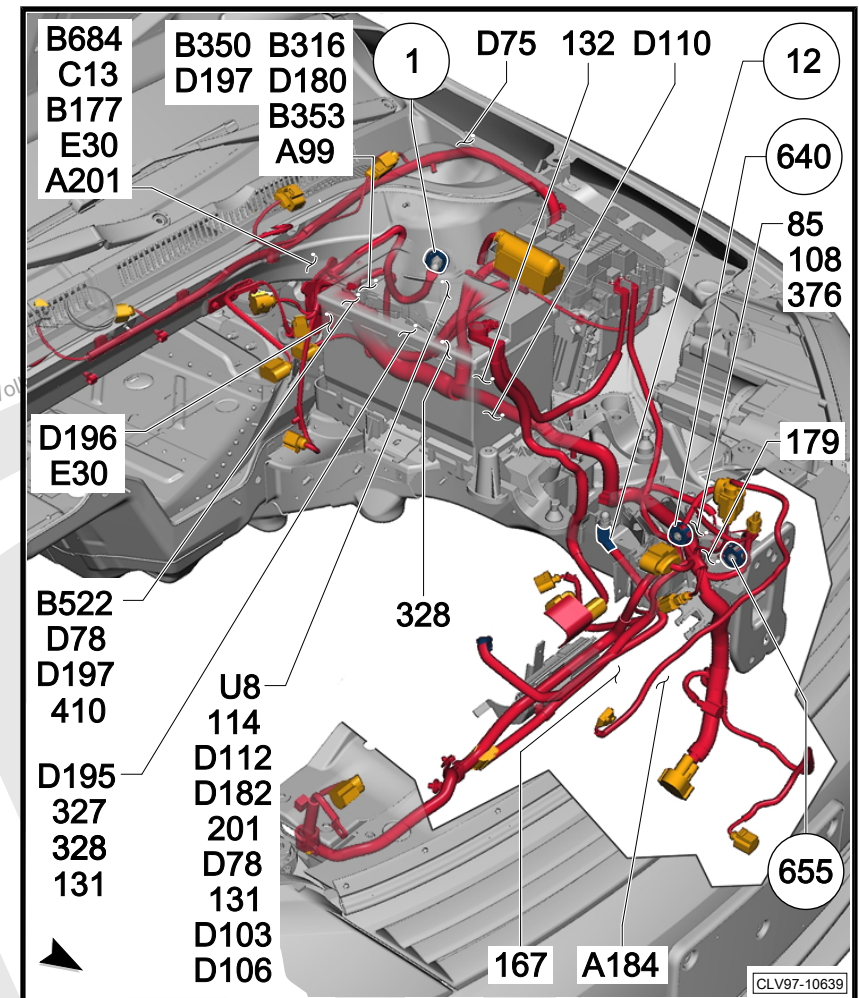
21 - Vacuum sensor -G608- not shown.

22 - Brake fluid level warning switch -F34-

A - 14-pin connector -T14-

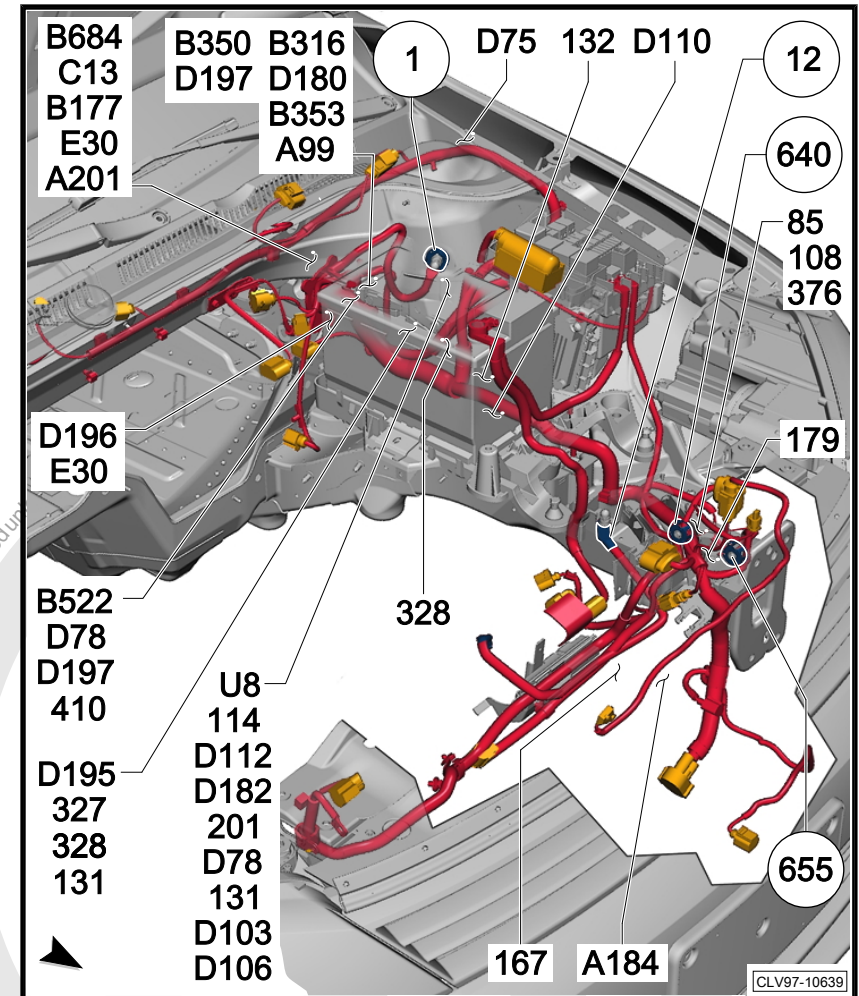
1.2.3 Engine compartment, driver II

- 1 - Ground strap, battery to body
- 12 - Ground connection in engine compartment, left
- 85 - Ground connection 1 (in engine compartment wiring harness)
- 108 - Ground connection 2 (in left front wiring harness)
- 114 - Ground connection (in automatic transmission wiring harness)
- 131 - Ground connection 2 (in engine compartment wiring harness)
- 132 - Ground connection 3 (in engine compartment wiring harness)
- 167 - Ground connection 4 (in engine compartment wiring harness)
- 179 - Ground connection (in left headlamp wiring harness)
- 201 - Ground connection 5 (in engine compartment wiring harness)
- 327 - Sensor ground connection (in engine compartment wiring harness)
- 328 - Sensor ground connection 2 (in engine compartment wiring harness)
- 376 - Ground connection 11 (in main wiring harness)
- 410 - Sensor ground connection 1 (in main wiring harness)
- 640 - Ground connection 2 in engine compartment, left
- 652 - Transmission/engine ground connection (not shown) - located on transmission near starter
- 655 - Ground connection on left headlamp



1.2.4 Engine compartment, driver III

- A99 - Connection 87 (in instrument panel wiring harness) 1
- A184 - Hood contact switch connection (in instrument panel wiring harness)
- A201 - Positive connection 6 (15a) (in instrument panel wiring harness)
- B177 - Connection 61 (in interior wiring harness)
- B316 - Positive connection 2 (30a) (in main wiring harness)
- B350 - Positive connection 1 (87a) (in main wiring harness)
- B353 - Positive connection 4 (87a) (in main wiring harness)
- B522 - Fog lamp connection (in main wiring harness)
- C13 - Positive connection (in dual tone horn wiring harness)
- D75 - Positive connection 2 (30) (in engine compartment wiring harness)
- D78 - Positive connection 1 (30a) (in engine compartment wiring harness)
- D103 - Connection 3 (in engine compartment wiring harness)
- D106 - Connection 4 (in engine compartment wiring harness)
- D110 - Connection 8 (in engine compartment wiring harness)
- D112 - Connection 10 (in engine compartment wiring harness)
- D180 - Connection 87a (in engine compartment wiring harness) 3
- D182 - Connection 87a (in engine compartment wiring harness) 3
- D195 - Connection 5V (in engine compartment wiring harness) 1
- D196 - Connection 87a (in engine wiring harness) 2
- D197 - Connection 87a (in engine compartment wiring harness) 5
- E30 - Connection 87a (in engine wiring harness)
- U8 - Positive connection (15a) (in automatic transmission wiring harness)



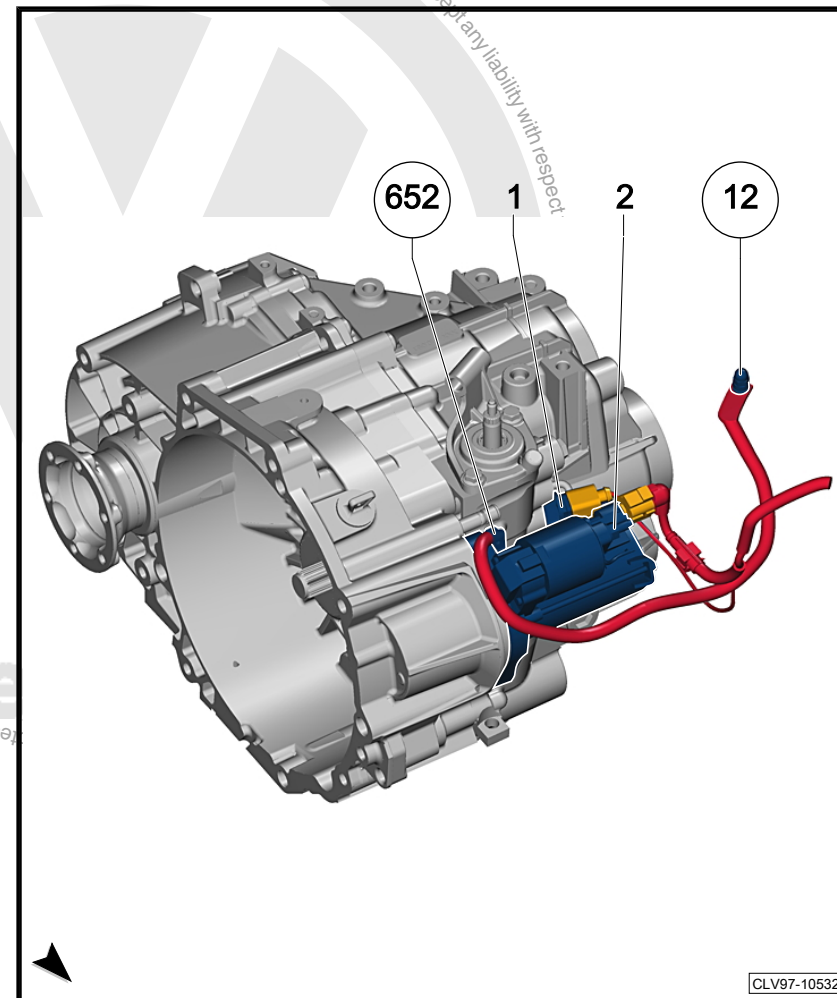
1.3 Transmission

- ◆ ⇒ ["1.3.1 Manual Trans. 02Q", page 31](#)
- ◆ ⇒ ["1.3.2 Manual Trans. 0A4", page 32](#)

- ◆ ⇒ [“1.3.3 Auto. Trans. 02E”, page 33](#)
- ◆ ⇒ [“1.3.4 Auto. Trans. 0AM/0CG”, page 34](#)
- ◆ ⇒ [“1.3.5 Auto Trans. 09G”, page 35](#)

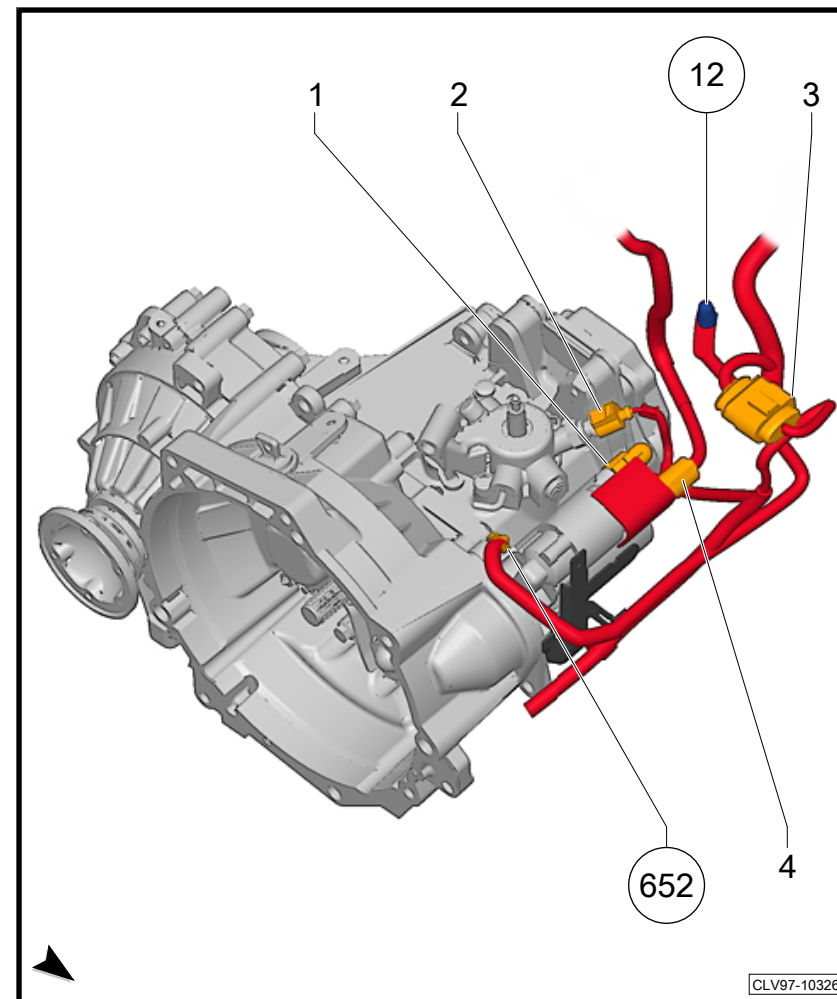
1.3.1 Manual Trans. 02Q

- 1 - Back-up lamp switch -F4-
- 2 - Starter -B-
- 12 - Ground connection in engine compartment, left
- 652 - Transmission/engine ground connection



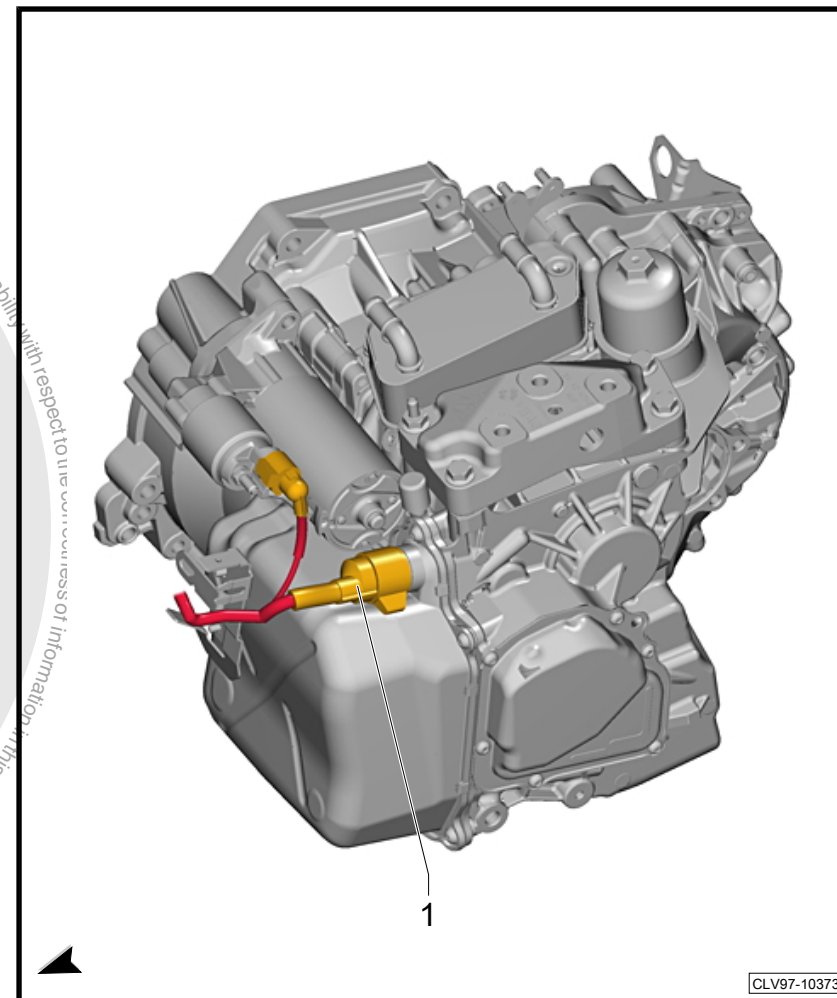
1.3.2 Manual Trans. 0A4

- 1 - Starter -B-
- 2 - Back-up lamp switch -F4-
- 3 - 14-pin connector -T14e-
- 4 - Starter -B-
- 12 - Ground connection
- 652 - Transmission/engine ground connection



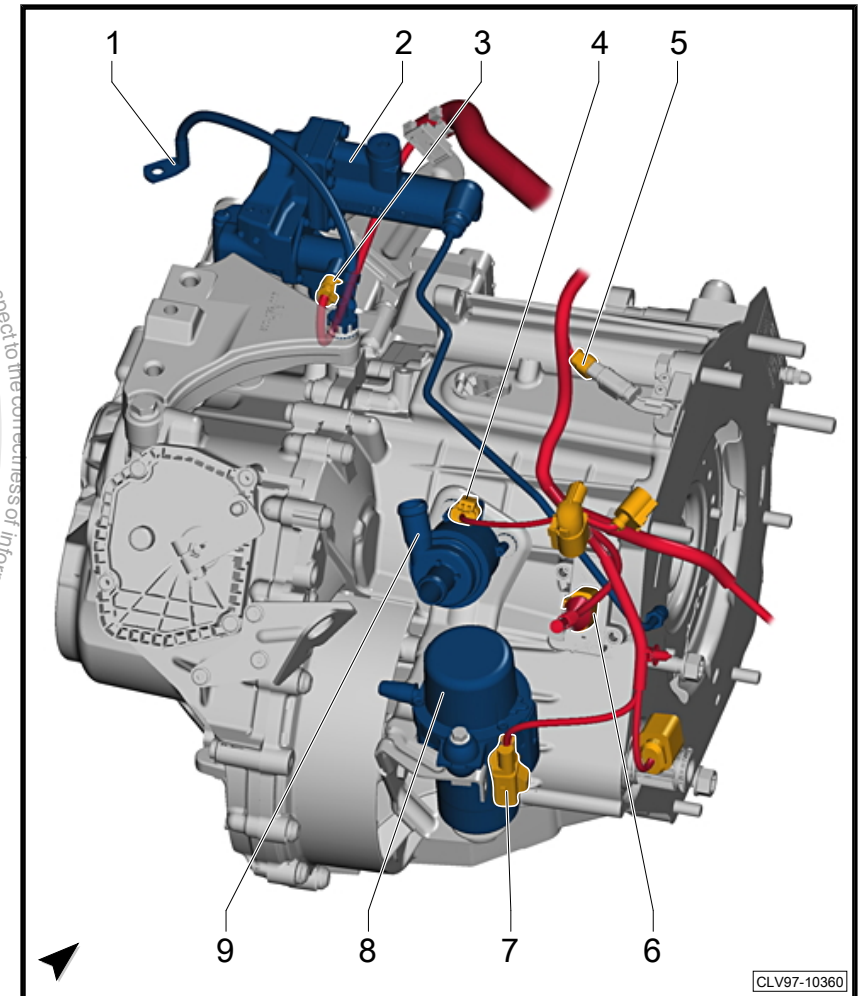
1.3.3 Auto. Trans. 02E

1 - DSG transmission Mechatronic -J743-



1.3.4 Auto. Trans. 0AM/0CG

- 1 - Ground connection
- 2 - Decoupler pressure actuator -N511-
- 3 - Double connector -T2ku-
- 4 - 3-pin connector -T3ht-
- 5 - Double connector -T2va- for Drive motor temperature sensor -G712-
- 6 - Drive motor rotor position sensor 1 -G713-
- 7 - Double connector -T2up-
- 8 - Brake system vacuum pump -V192-
- 9 - High temperature circuit coolant pump -V467-



1.3.5 Auto Trans. 09G

1 - Multifunction transmission range switch -F125-

1 - Brake system vacuum pump -V192-

□ located on automatic transmission at front in direction of travel if equipped.

2 - Starter -B-

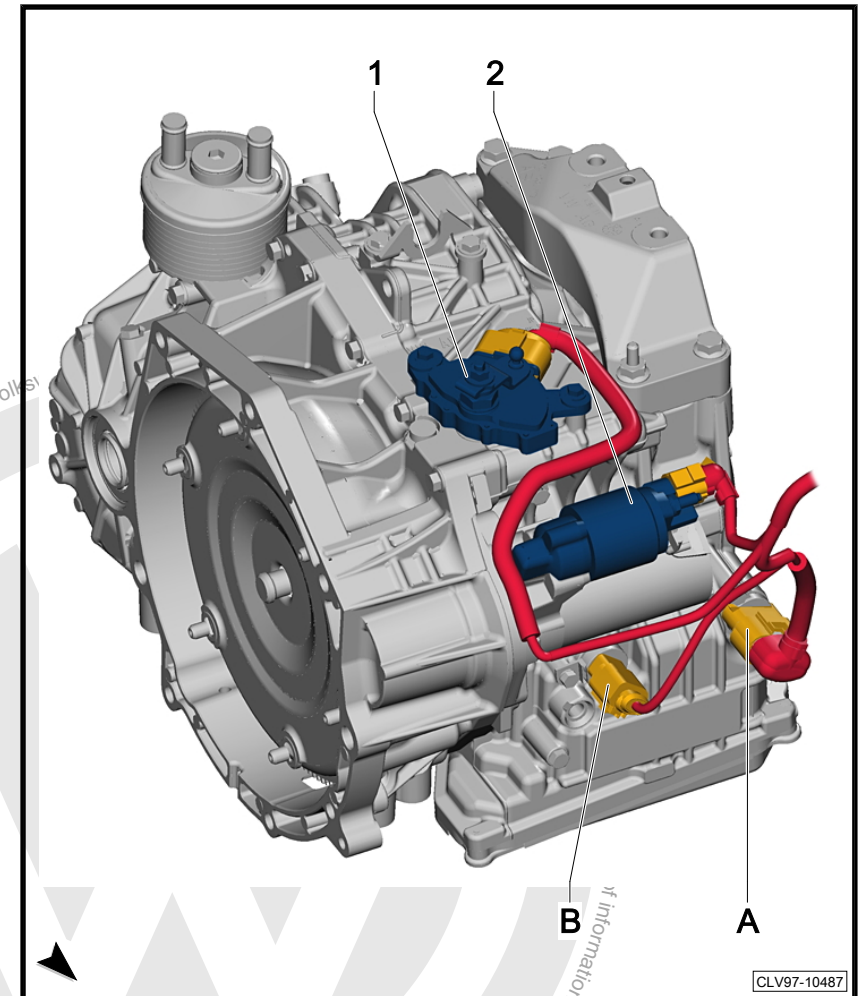
A - 14-pin connector -T14-

B - 8-pin connector -T8-

B - Transmission input speed sensor -G182- connector

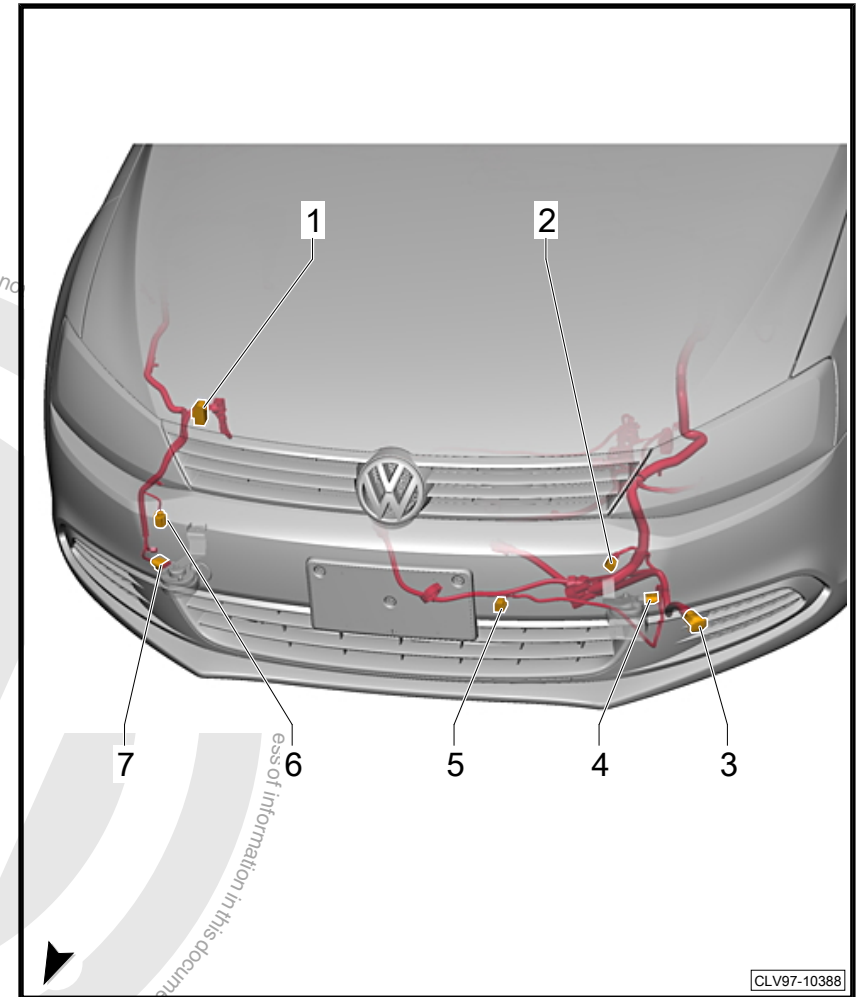
B - Clutch oil temperature sensor -G509- connector

B - Transmission fluid temperature sensor -G93- connector



1.4 Front Bumper

- 1 - Right front headlamp -MX2-
- 2 - Engine coolant temperature sensor on radiator outlet -G83-
- 3 - Converter with socket, 12 V-115 V -U27-
- 4 - High tone horn -H2-
- 5 - Outside air temperature sensor -G17-
- 6 - Windshield washer pump -V5-
- 7 - Low tone horn -H7-



1.5 Hybrid System

- ◆ ⇒ ["1.5.1 System Overview", page 37](#)
- ◆ ⇒ ["1.5.3 Battery A ", page 40](#)

- ◆ ⇒ [“1.5.4 Electric drive power and control electronics”, page 41](#)
- ◆ ⇒ [“1.5.5 Remote start connection TV32”, page 43](#)
- ◆ ⇒ [“1.5.6 Electric air conditioner compressor V470 / control unit for air conditioner compressor J842”, page 44](#)
- ◆ ⇒ [“1.5.7 Three-phase current drive”, page 46](#)

1.5.1 System Overview



DANGER!

High voltage may be deadly!



Note

Read the information before beginning work on the high voltage system (HV) ⇒ Rep. Gr. 93; General Information when Working on High Voltage System

1 - Battery fan 1 -V457-

- ❑ Component location: inside the luggage compartment on the front passenger side

2 - Hybrid battery unit -AX1-

- ❑ Component location: in the luggage compartment

2 - hybrid battery -A38-

2 - battery regulation control unit -J840-

3 - Battery -A- ➔ [page 40](#)

4 - Hybrid battery high voltage wiring harness -PX1-

5 - Electric drive power and control electronics -JX1- ➔ [page 41](#)

6 - Remote start connection -TV32- ➔ [page 43](#)

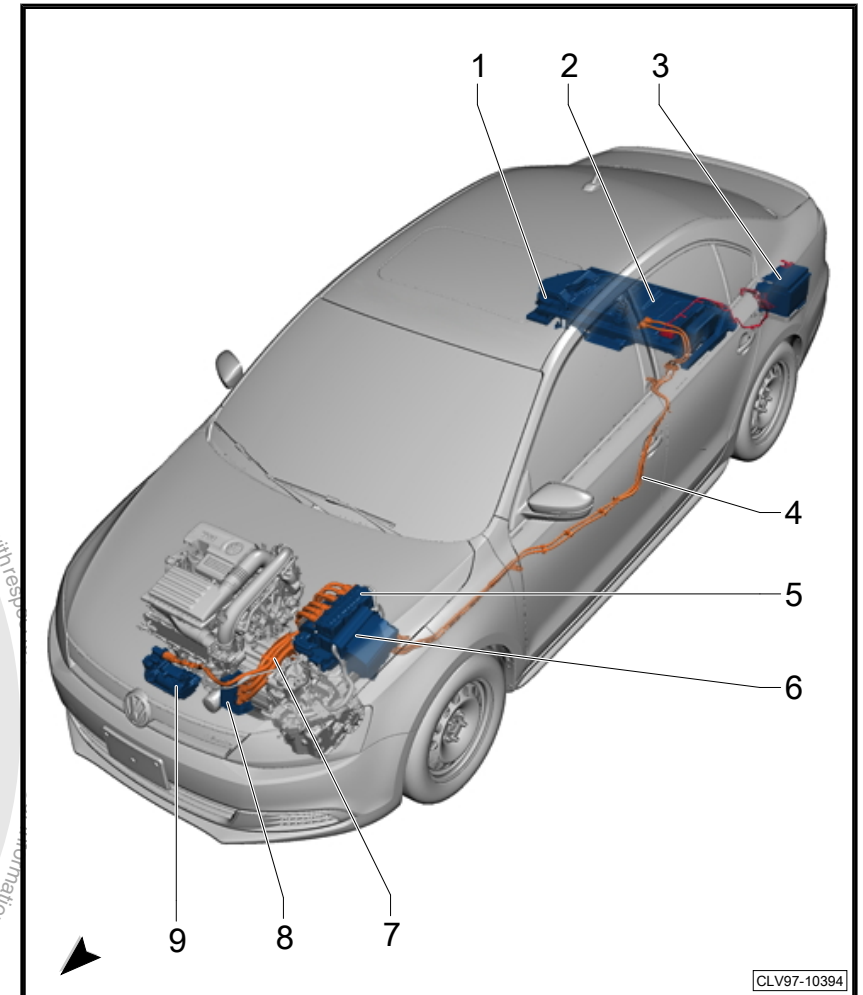
7 - Drive motor high voltage wiring harness -PX2- ➔ [page 46](#)

8 - Three-phase current drive -VX54- ➔ [page 46](#)

8 - Electro-drive drive motor -V141-

9 - A/C compressor control module -J842- ➔ [page 44](#)

9 - Electric air conditioner compressor -V470-



1.5.2 High Voltage Battery



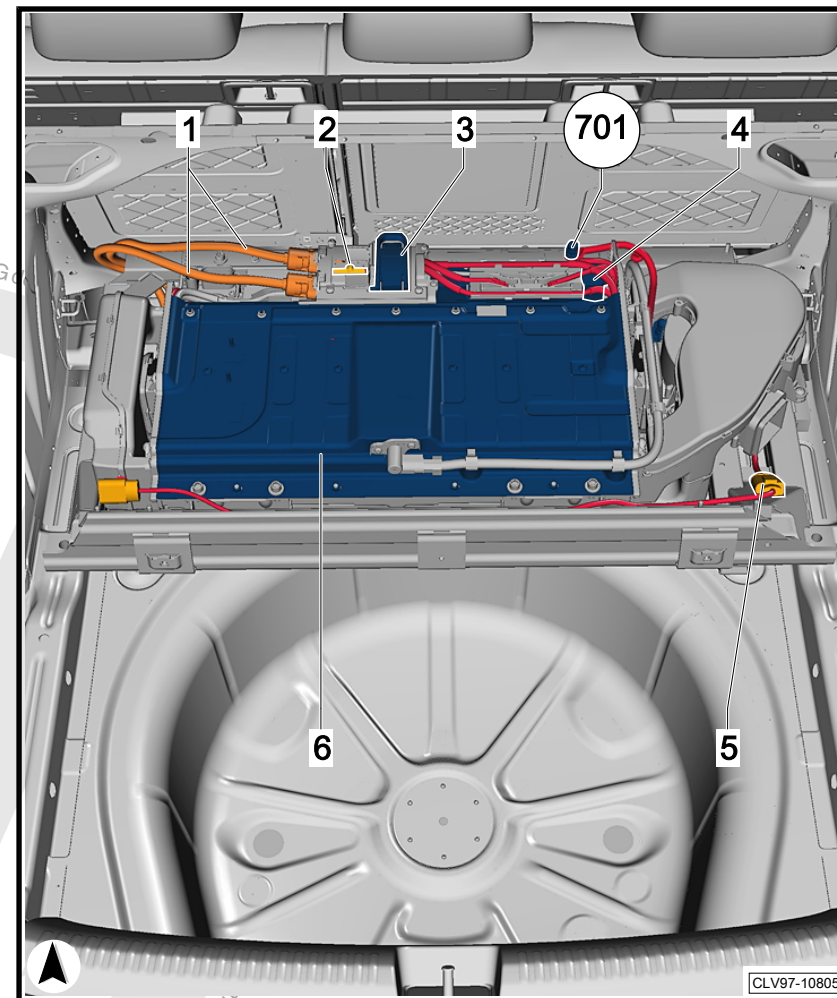
DANGER!

High voltage may be deadly!

i Note

Read the information before beginning work on the high voltage system (HV) ⇒ Rep. Gr. 93 ; General Information when Working on High Voltage System

- 1 - Hybrid battery high voltage cable, positive terminal
- 1 - Hybrid battery high voltage cable, negative terminal
- 2 - Pilot line connector 1 -TV44-
- 3 - High voltage system maintenance connector -TW-
- 4 - Terminal 30 wire junction -TV2-
- 5 - 4-pin connector -T4lh-
- 6 - Hybrid battery unit
- 701 - Ground connection in luggage compartment



1.5.3 Battery -A-



DANGER!

High voltage may be deadly!



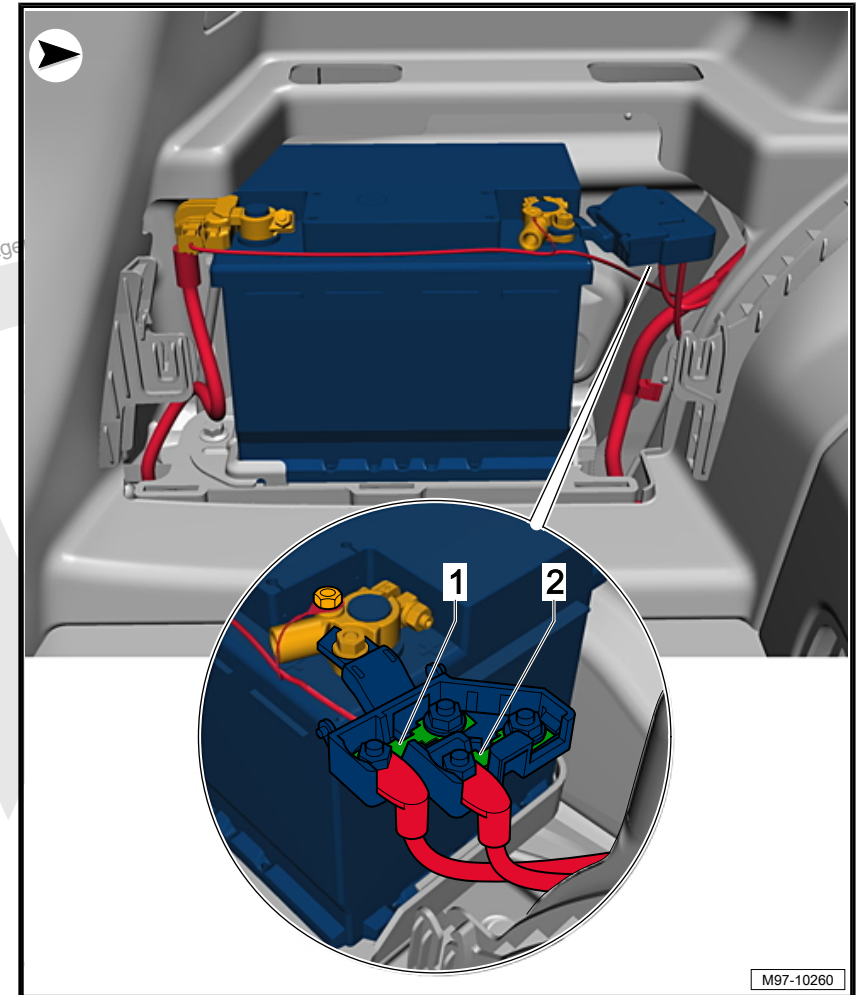
Note

Read the information before beginning work on the high voltage system (HV) ⇒ Rep. Gr. 93; General Information when Working on High Voltage System

Only for models with high-voltage system (hybrid).



- 1 - Fuse 1 (terminal 30) on battery fuse panel -S162-
- 2 - Fuse 2 (terminal 30) on battery fuse panel -S163-



1.5.4 Electric drive power and control electronics



DANGER!

High voltage may be deadly!



Note

Read the information before beginning work on the high voltage system (HV) ⇒ Rep. Gr. 93 ; General Information when Working on High Voltage System

1 - Electric drive power and control electronics

1 - Drive motor inverter -A37-

1 - Electrical drive control module -J841-

1 - Voltage converter -A19-

2 - Hybrid battery high voltage cable, negative terminal -P2-

3 - Hybrid battery high voltage cable, positive terminal -P1-

4 - Electrical A/C compressor high voltage cable -P3-

5 - Drive motor high voltage cable 1 -P4-

6 - drive motor high voltage cable 2 -P5-

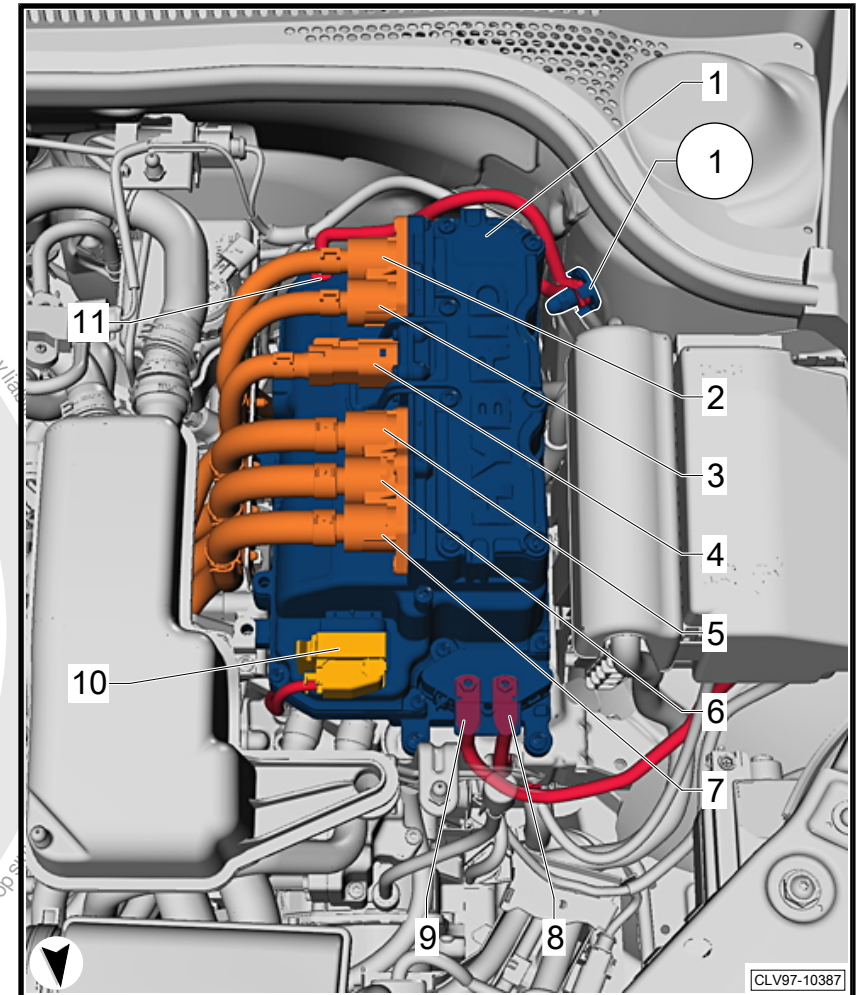
7 - drive motor high voltage cable 3 -P6-

8 - Hybrid battery high voltage cable, positive terminal -P1-

9 - B1

10 - 28-pin connector -T28jx-

1 - Ground strap, battery to body



1.5.5 Remote start connection -TV32-



DANGER!

High voltage may be deadly!

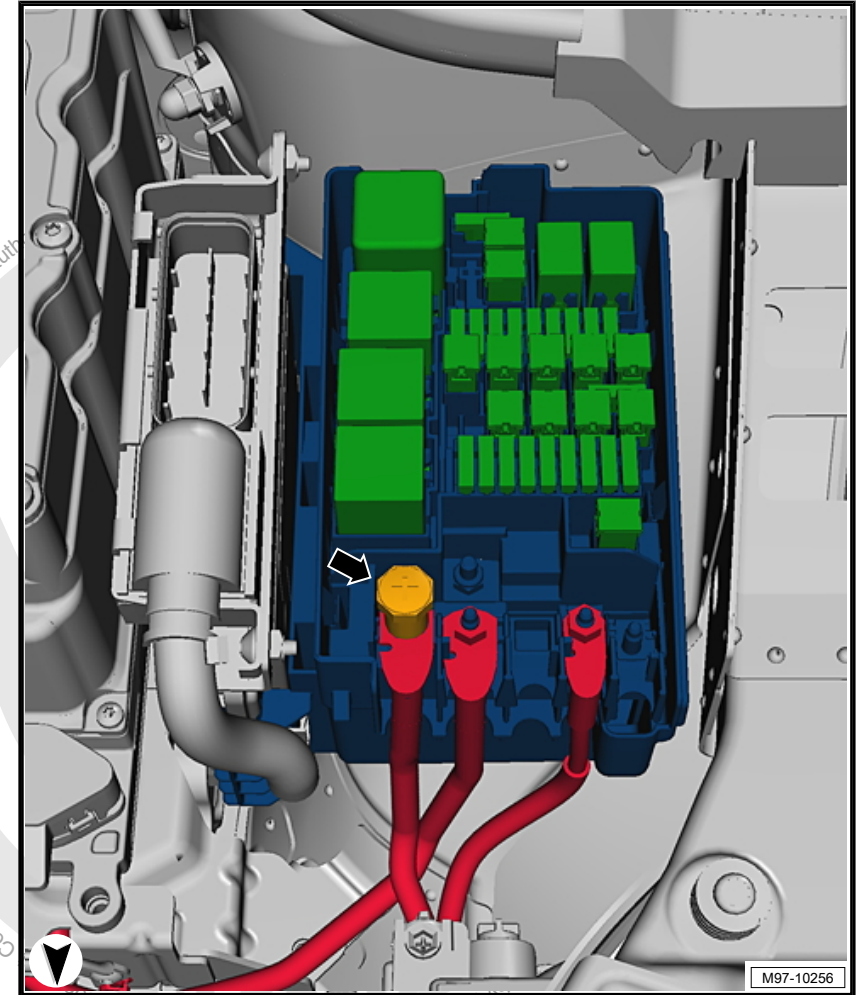


Note

Read the information before beginning work on the high voltage system (HV) ⇒ Rep. Gr. 93; General Information when Working on High Voltage System



- Remote start connection -TV32- , on the E-Box, -arrow-



1.5.6 Electric air conditioner compressor -V470- / control unit for air conditioner compressor -J842-



DANGER!

High voltage may be deadly!

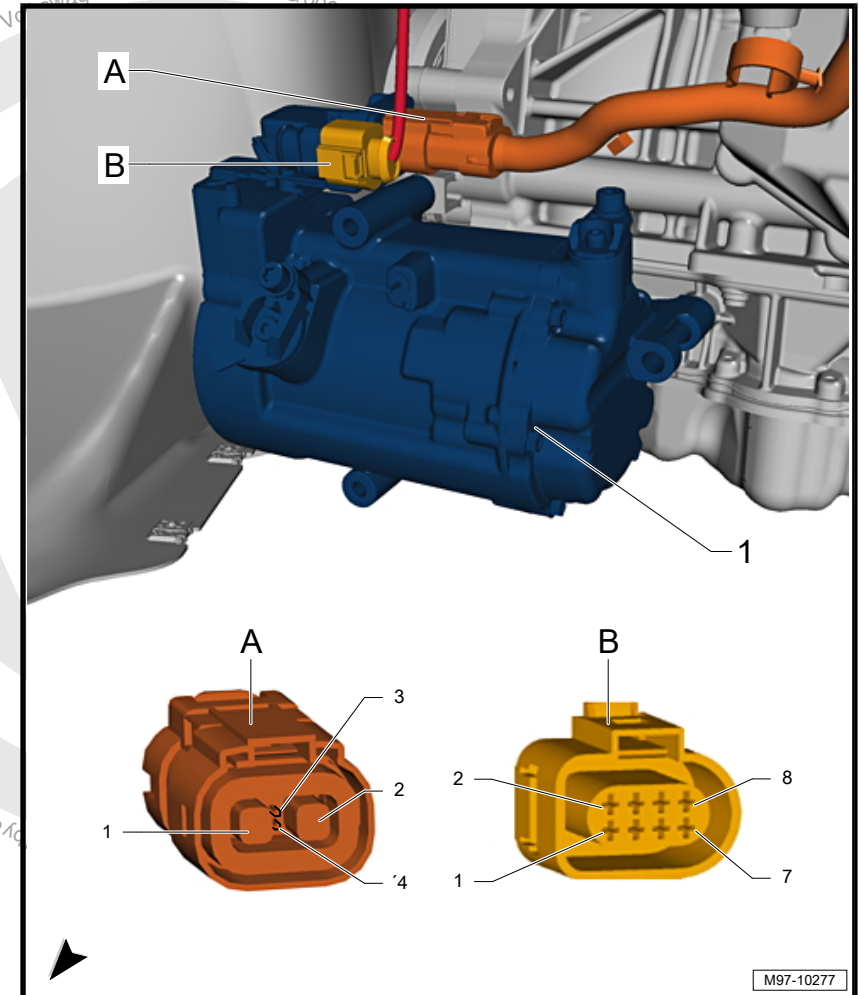


Note

Read the information before beginning work on the high voltage system (HV) ⇒ Rep. Gr. 93 ; General Information when Working on High Voltage System

A - Drive motor high voltage wiring harness -PX2-

B - Three-phase current drive



1.5.7 Three-phase current drive



DANGER!

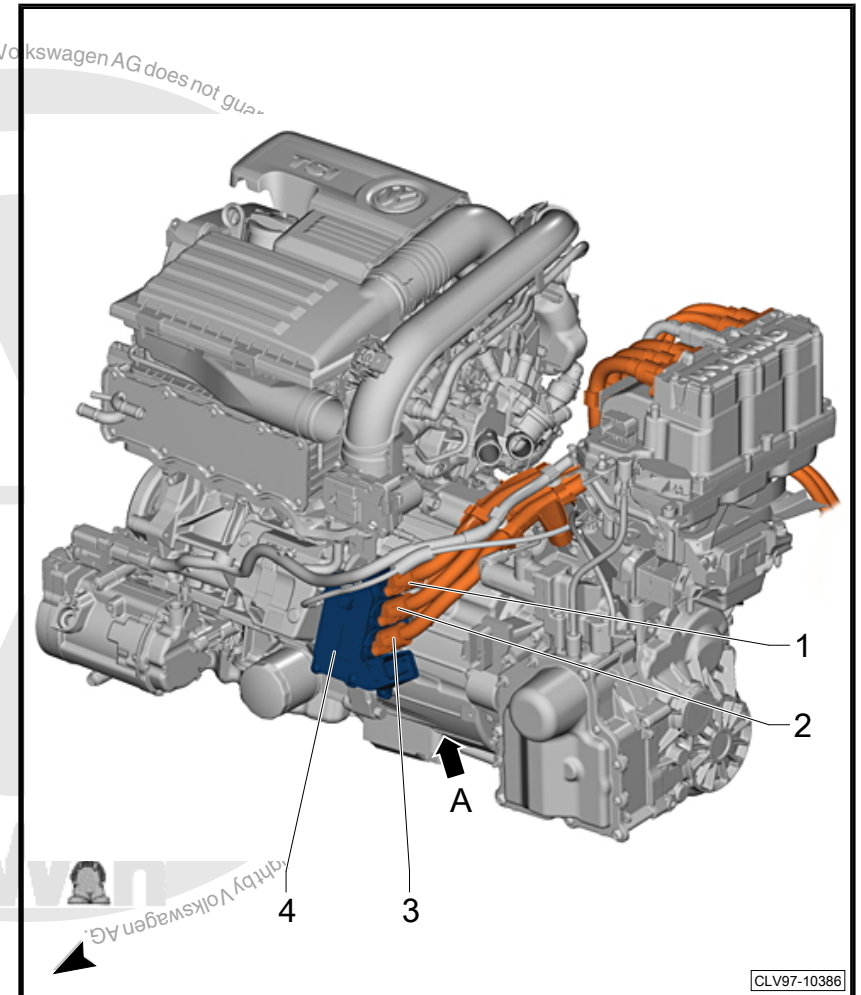
High voltage may be deadly!



Note

Read the information before beginning work on the high voltage system (HV) ⇒ Rep. Gr. 93; General Information when Working on High Voltage System

- 1 - Drive motor high voltage cable 1 -P4-
- 2 - Drive motor high voltage cable 2 -P5-
- 3 - Drive motor high voltage cable 3 -P6-
- 4 - Three-phase current drive



04/1/2014

1 Comp. Loc.: Vehicle Rear

◆ ⇒ [“1.1 Luggage Compartment”, page 1](#)

◆ ⇒ [“1.2 Trunk Lid”, page 4](#)

◆ ⇒ [“1.3 Bumper”, page 5](#)

1.1 Luggage Compartment

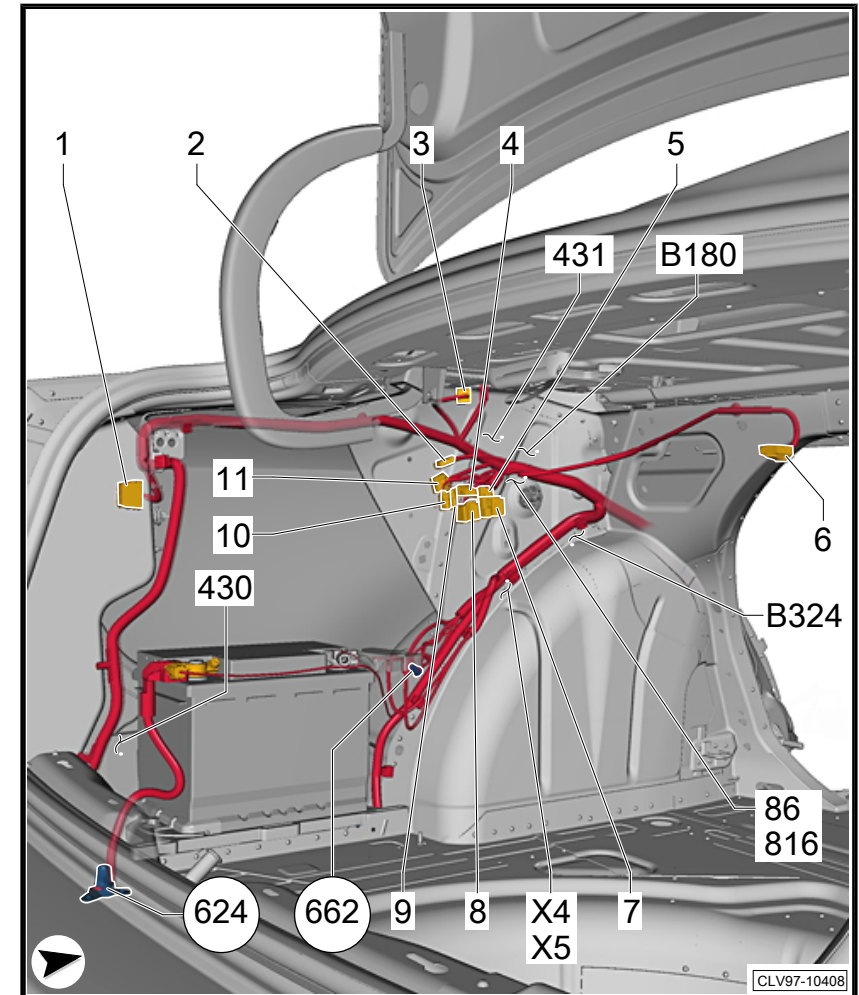
◆ ⇒ [“1.1.1 Luggage Compartment - Left Side”, page 1](#)

◆ ⇒ [“1.1.2 Luggage Compartment - Right Side”, page 3](#)

1.1.1 Luggage Compartment - Left Side

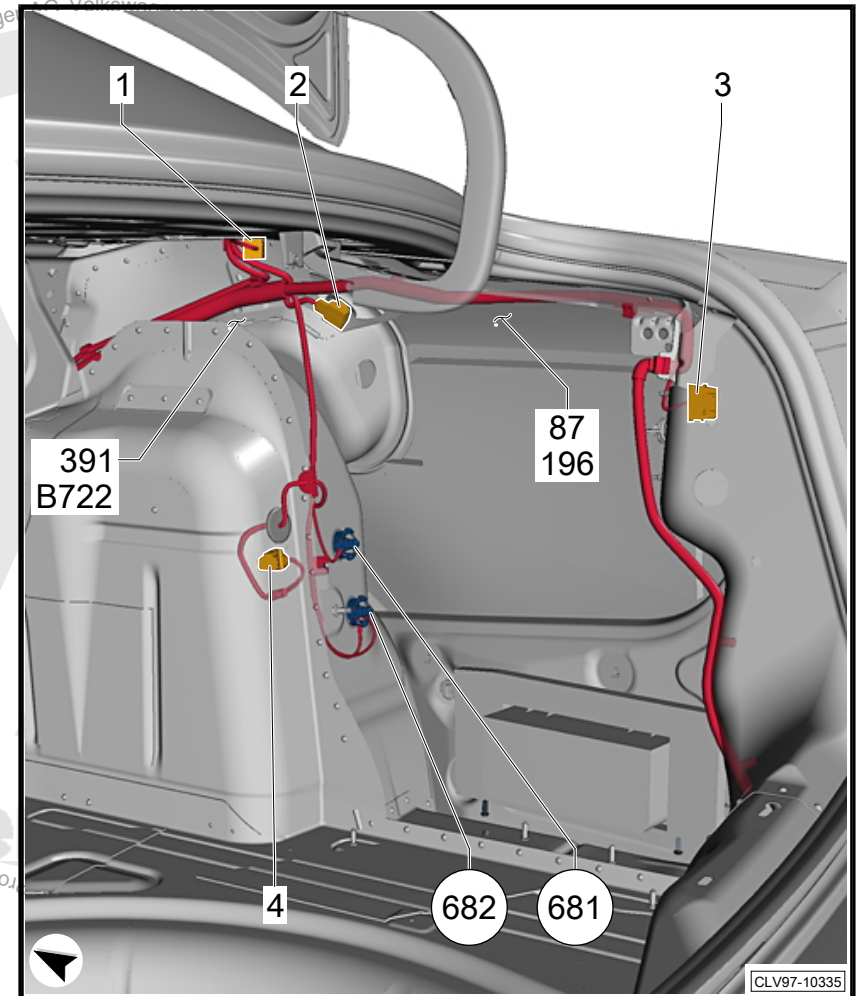


- 1 - Left tail lamp -MX3-
- 2 - Auxiliary heater antenna -R182-
- 2 - Auxiliary engine coolant heater radio frequency receiver -R149-
- 3 - Driver side rear seat belt tensioner igniter -N196-
- 4 - 12 V socket 2 -U18-
- 5 - Vehicle positioning system control module -J895-
- 6 - Subwoofer -R211-
- 7 - Towing recognition control module -J345-
- 8 - 16-pin connector -T16f-
- 9 - Vehicle GPS antenna 1 -R259- Connection
- 10 - Vehicle GPS antenna 2 -R260- Connection
- 11 - Auxiliary engine coolant heater radio frequency receiver -R149-
- 86 - Ground connection 1 (in rear wiring harness)
- 430 - Ground connection in trailer hitch wiring harness
- 431 - Ground connection 2
- 662 - Ground connection in left rear side panel
- 624 - Ground connection near starter battery
- 816 - Ground connection 1 in Hybrid System wiring harness
- B180 - Rear window defogger connection
- B324 - Positive connection 10 (30a)
- X4 - CAN bus Hybrid high connection 1 (in engine compartment wiring harness)
- X5 - CAN bus Hybrid low connection 1 (in engine compartment wiring harness)



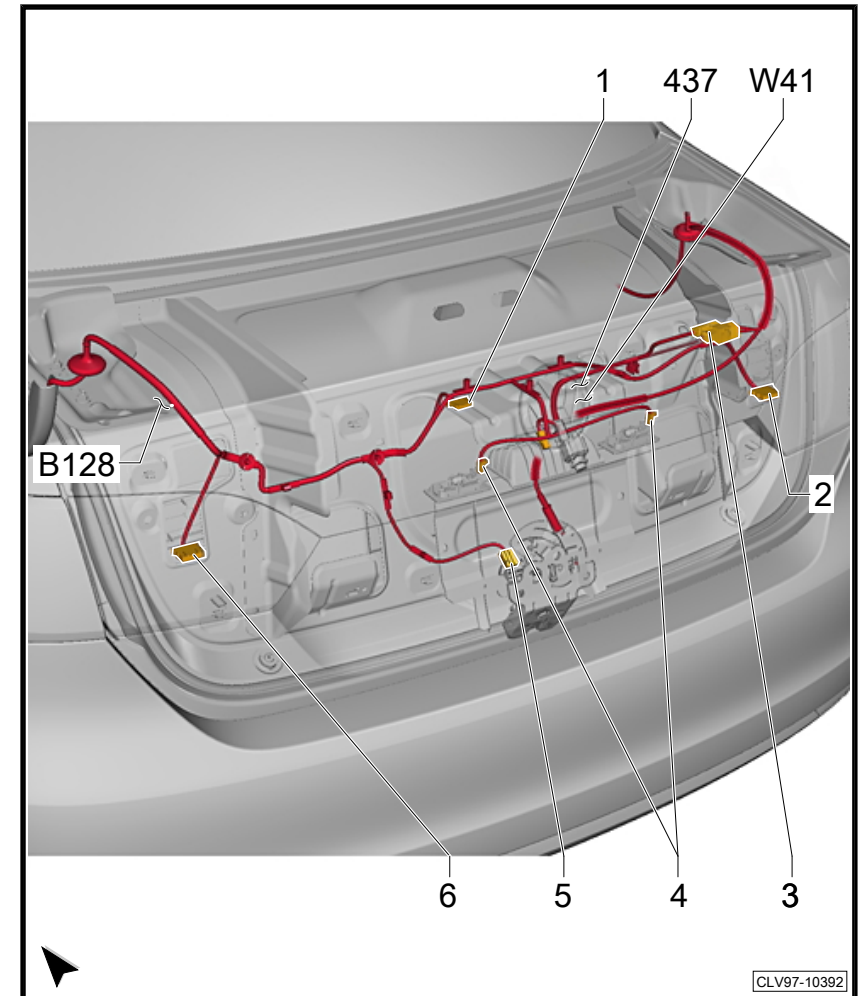
1.1.2 Luggage Compartment - Right Side

- 1 - Passenger side rear seat belt tensioner igniter -N197-
- 2 - Fuel filler door unlock motor -V155-
- 2 - Fuel filler cap detection switch -F334-
- 3 - Right tail lamp -MX4-
- 4 - Leak detection pump -V144-
- 4 - EVAP canister purge regulator valve 2 -N115- not shown
- 87 - Ground connection 2 (in rear wiring harness)
- 196 - Ground connection 3 (in rear wiring harness)
- 391 - Ground connection 26 (in main wiring harness)
- 681 - Ground connection 1 in right rear side panel
- 682 - Ground connection 2 in right rear side panel
- B722 - Central locking connection 3 (in main wiring harness)



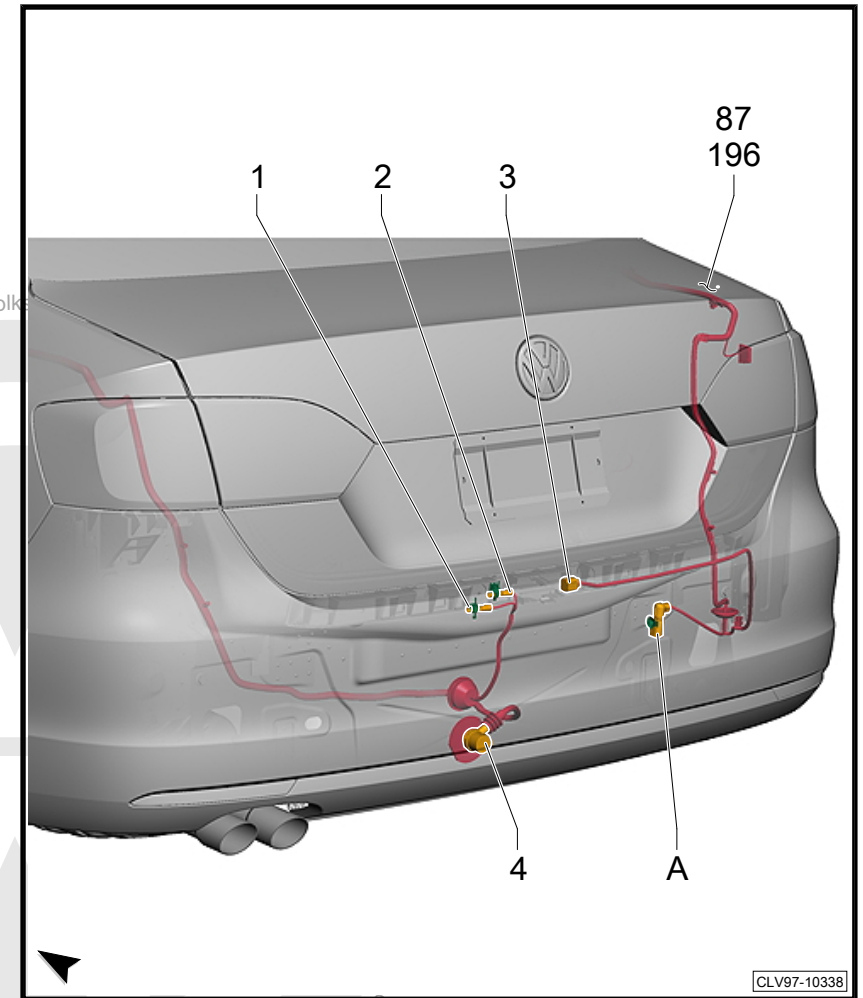
1.2 Trunk Lid

- 1 - Compass magnetic field sensor -G197-
- 2 - Right tail lamp 2 -MX6-
- 3 - Rearview camera -R189-
- 4 - License plate lamp -X-
- 5 - Rear lid lock unit -F256-
- 5 - Rear lid central locking system motor -V53-
- 5 - Rear lid opening motor -V254-
- 5 - Luggage compartment lamp switch -F5-
- 5 - Rear lid lock/alarm/central locking switch -F124-
- 6 - Left tail lamp 2 -MX5-
- 437 - Ground connection (in license plate lamp wiring harness)
- B128 - Luggage compartment lamp connection
- W41 - Positive connection (58)



1.3 Bumper

- 1 - Vehicle GPS antenna 2 -R260-
- 2 - Vehicle GPS antenna 1 -R259-
- 3 - Access/start system antenna in rear bumper -R136-
- 4 - Trailer socket -U10-
- 196 - Ground connection 3 (in rear wiring harness)
- 87 - Ground connection 2 (in rear wiring harness)
- A - 6-pin connector -T6af-



1 Comp. Loc.: Vehicle Cabin

- ◆ ⇒ [“1.1 Instrumentation”, page 1](#)
- ◆ ⇒ [“1.2 HVAC”, page 12](#)
- ◆ ⇒ [“1.3 A/B Pillar, Left”, page 16](#)
- ◆ ⇒ [“1.4 A/B Pillar, Right”, page 19](#)
- ◆ ⇒ [“1.5 C Pillar, Left”, page 20](#)
- ◆ ⇒ [“1.6 C Pillar, Right”, page 21](#)
- ◆ ⇒ [“1.7 Floor”, page 22](#)
- ◆ ⇒ [“1.8 Door, LF”, page 23](#)
- ◆ ⇒ [“1.9 Door, RF”, page 24](#)
- ◆ ⇒ [“1.10 Door, LR”, page 25](#)
- ◆ ⇒ [“1.11 Door, RR”, page 26](#)
- ◆ ⇒ [“1.12 Roof”, page 26](#)

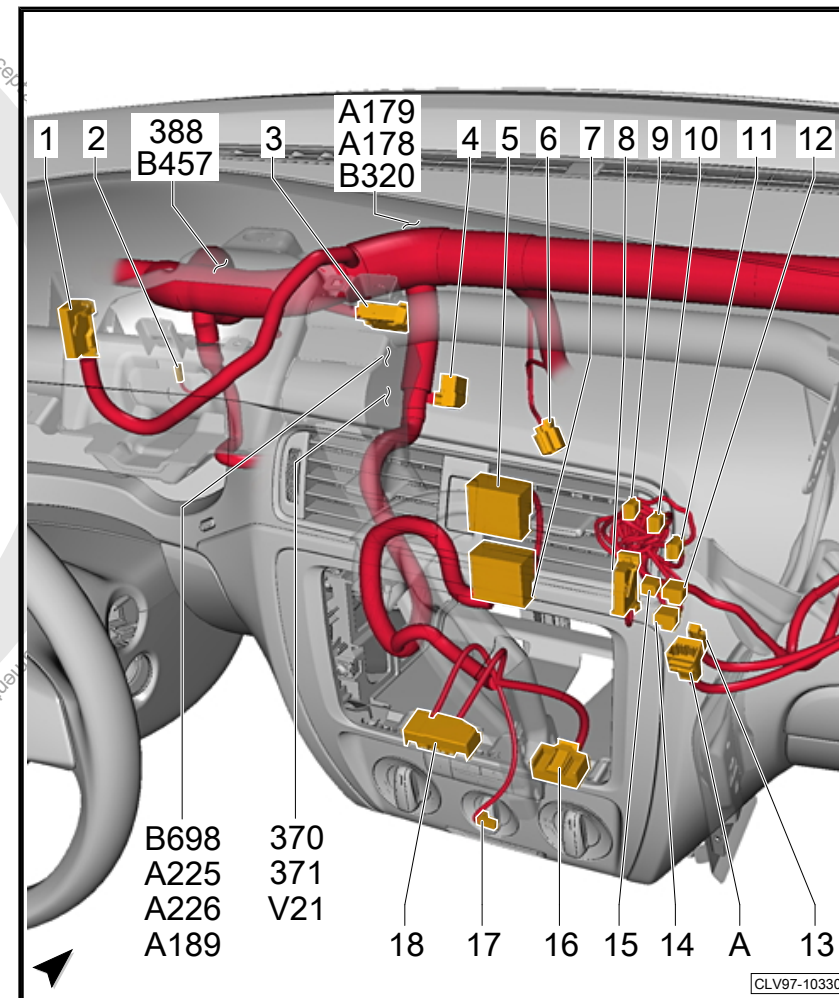
1.1 Instrumentation

- ◆ ⇒ [“1.1.1 Instrument Panel, Center”, page 1](#)
- ◆ ⇒ [“1.1.2 Instrument Panel, Right I”, page 4](#)
- ◆ ⇒ [“1.1.3 Instrument Panel, Right II”, page 5](#)
- ◆ ⇒ [“1.1.4 Instrument Panel, Left I”, page 6](#)
- ◆ ⇒ [“1.1.5 Instrument Panel, Left II”, page 7](#)
- ◆ ⇒ [“1.1.6 Instrument Panel, Left III”, page 8](#)
- ◆ ⇒ [“1.1.7 Steering, Part I”, page 10](#)
- ◆ ⇒ [“1.1.8 Steering, Part II”, page 11](#)
- ◆ ⇒ [“1.1.9 Steering, Part III”, page 12](#)

1.1.1 Instrument Panel, Center



- 1 - Instrument cluster control module -J285-
- 1 - Anti-theft immobilizer control module -J362-
- 2 - Left footwell vent temperature sensor connection
- 3 - Access/start authorization control module -J518-
- 4 - Data bus on board diagnostic interface -J533-
- 5 - 16-pin connector -T16d-
- 5 - Radio -R-
- 6 - Radio -R-
- 7 - Radio/navigation display unit control module -J503-
- 8 - 26-pin connector -T26a-
- 9 - Antennas connectors
- 10 - Antennas connectors
- 11 - Antennas connectors
- 12 - Antennas connectors
- 13 - Telephone antenna connection
- 14 - AM/FM antenna connection (optional)
- 15 - GPS antenna -R50- connection
- 16 - Climatronic control module -J255-
- 16 - A/C control module -J301-
- 16 - Heater control module -J162-
- 17 - Front passenger airbag -disabled- indicator lamp -K145-
- 18 - Climatronic control module -J255-
- 18 - A/C control module -J301-
- 370 - Ground connection 5 (in main wiring harness)
- 371 - Ground connection 6 (in main wiring harness)
- 388 - Ground connection 23 (in main wiring harness)
- A - 10-pin connector -T10m-
- A178 - Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 - Infotainment CAN bus low connection (in instrument panel wiring harness)



A189 - Positive connection 5 (30a) (in instrument panel wiring harness)

A225 - Infotainment CAN bus high connection 2 (in instrument panel wiring harness)

A226 - Infotainment CAN bus low connection 2 (in instrument panel wiring harness)

B320 - Positive connection 6 (30a) (in main wiring harness)

B457 - Position sensor connection 1 (in main wiring harness)

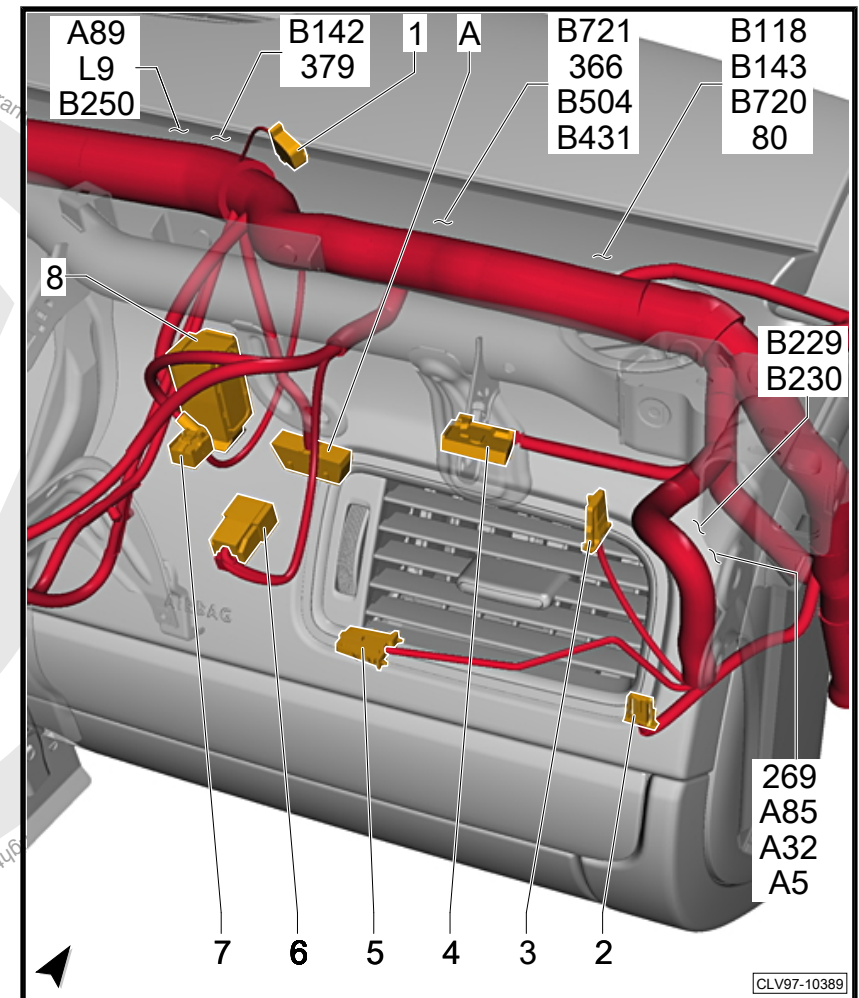
B698 - LIN bus connection 3 (in main wiring harness)

V21 - Positive connection (30) (in wiring radio/amplifier wiring harness)



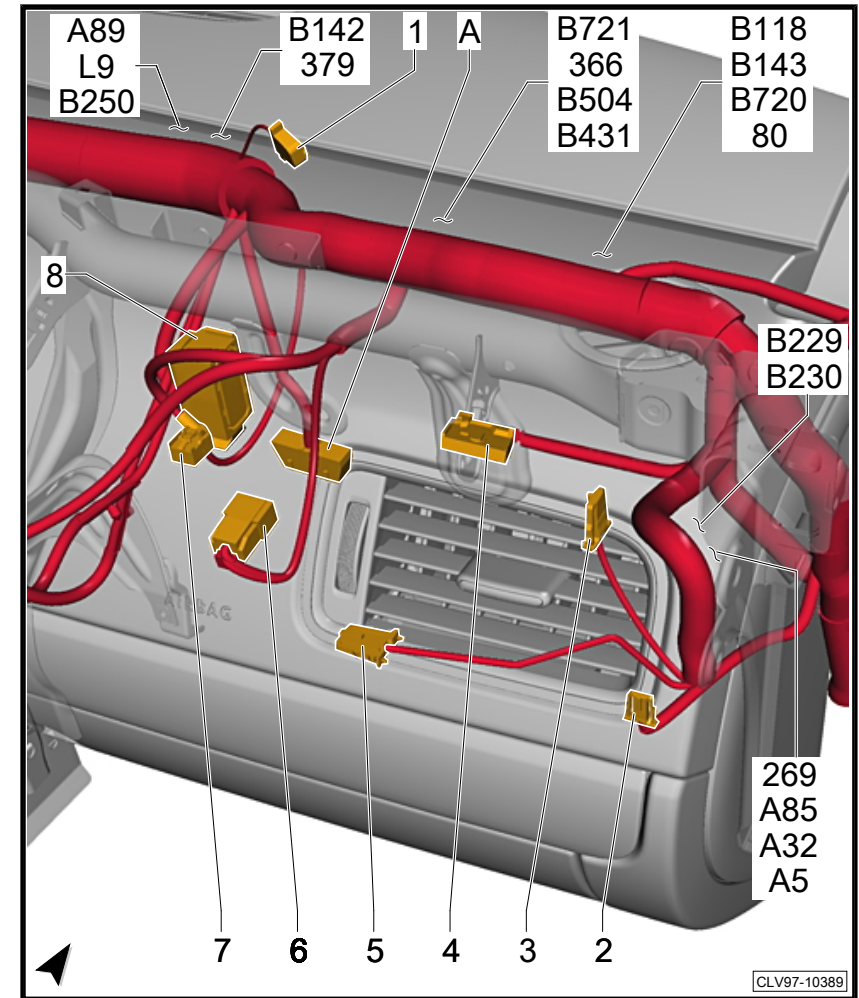
1.1.2 Instrument Panel, Right I

- 1 - Sunlight photo sensor -G107-
- 1 - Sunlight photo sensor 2 -G134-
- 2 - Glove compartment lamp switch -E26-
- 3 - Right vent temperature sensor -G151-
- 4 - Cornering lamp and headlamp range control module -J745-
- 5 - Glove compartment lamp -W6-
- 5 - Cell phone operating electronics control module -J412- , not shown.
☐ Alternate location depending on equipment ⇒ [Item 10 \(page 22\)](#)
- 6 - Front passenger airbag igniter 1 -N131-
- 6 - Front passenger airbag igniter 2 -N132-
- 7 - Multimedia system control module -J650-
- 7 - Telephone baseplate -R126- , not shown. Located near J650.
- 8 - Voltage stabilizer -J532-



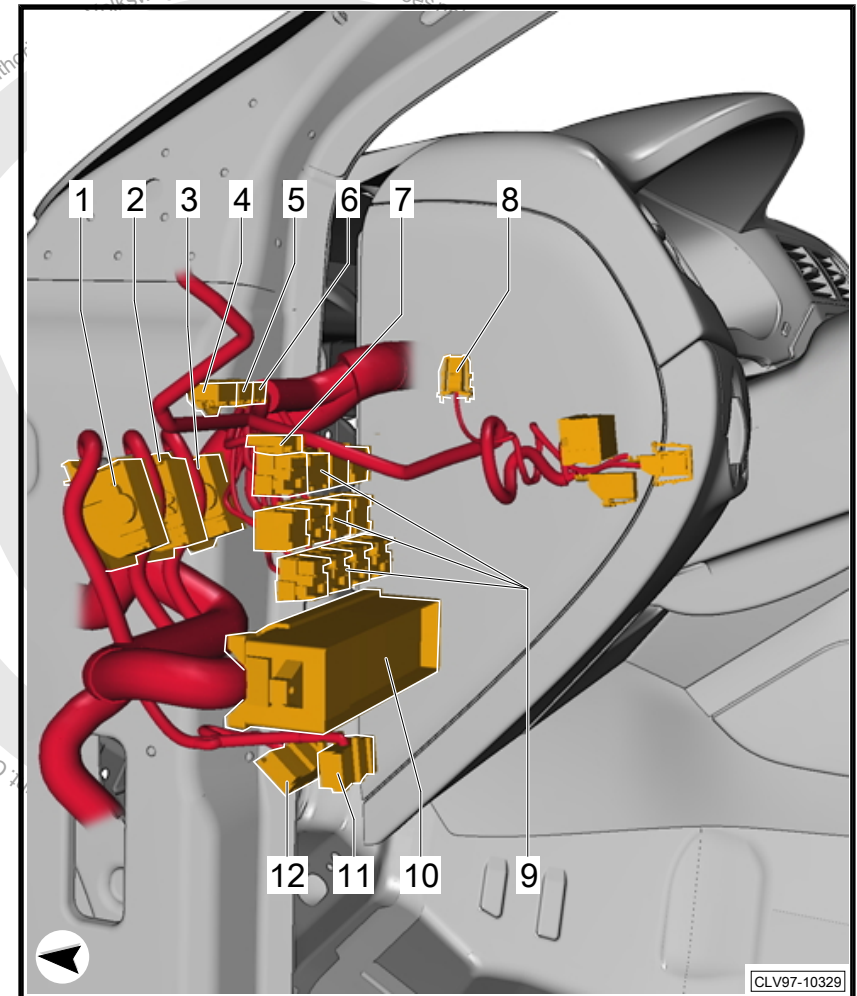
1.1.3 Instrument Panel, Right II

- 80 - Ground connection 1 (in instrument cluster wiring harness)
- 269 - Sensor ground connection 1 (in instrument panel wiring harness)
- 366 - Ground connection 1 (in main wiring harness)
- 379 - Ground connection 14 (in main wiring harness)
- A - 10-pin connector -T10a-
- A5 - Right turn signal positive connection (in instrument panel wiring harness)
- A32 - Positive connection (30) (in instrument panel wiring harness)
- A85 - Connection 58R (in instrument panel wiring harness)
- A89 - Connection 54 (in instrument panel wiring harness) 2
- B118 - Driver seat adjustment connection (in interior wiring harness)
- B142 - Positive connection 2 (56a) (in interior wiring harness)
- B143 - Positive connection (58R) (in interior wiring harness)
- B229 - High bus connection (in interior wiring harness)
- B230 - Low bus connection (in interior wiring harness)
- B250 - Positive connection (in roof wiring harness)
- B431 - Seat heating connection (in main wiring harness)
- B504 - Positive connection 8 (30a) (in interior wiring harness)
- B720 - Central locking connection 1 (in main wiring harness)
- B721 - Central locking connection 2 (in main wiring harness)
- L9 - Connection 1 (in A/C system wiring harness)



1.1.4 Instrument Panel, Left I

- 1 - Vehicle electrical system control module -J519-
- 2 - Vehicle electrical system control module -J519-
- 3 - Vehicle electrical system control module -J519-
- 4 - Parking aid control module -J446-
- 5 - Parking aid control module -J446-
- 6 - Parking aid control module -J446-
- 7 - Driver power seat adjustment circuit breaker 1 -S44-
- 8 - Left vent temperature sensor -G150- Climatronic only
- 8 - Center vent temperature sensor -G191- Climatic only
- 9 - Relays carrier
- 9 - Front parking aid warning buzzer -H22- not shown. Located under carrier.
- 10 - Fuse panel C (SC)
- 11 - 16-pin connector -T16-
- 12 - 16-pin connector -T16-



1.1.5 Instrument Panel, Left II

389 - Ground connection 24 (in main wiring harness)

A1 - Positive connection (30a) (in instrument panel wiring harness)

A3 - Positive connection (58) (in instrument panel wiring harness)

A9 - Positive connection (56b) (in instrument cluster wiring harness)

A33 - Connection 75 (in instrument panel wiring harness)

A41 - Positive connection (50) (in instrument panel wiring harness)

A63 - Mirror adjustment/heating connection (in instrument panel wiring harness)

A76 - KS-diagnostic lead connection (in instrument panel wiring harness)

A83 - Daytime running lamps connection (in instrument panel wiring harness)

A98 - Positive connection 4 (30) (in instrument panel wiring harness)

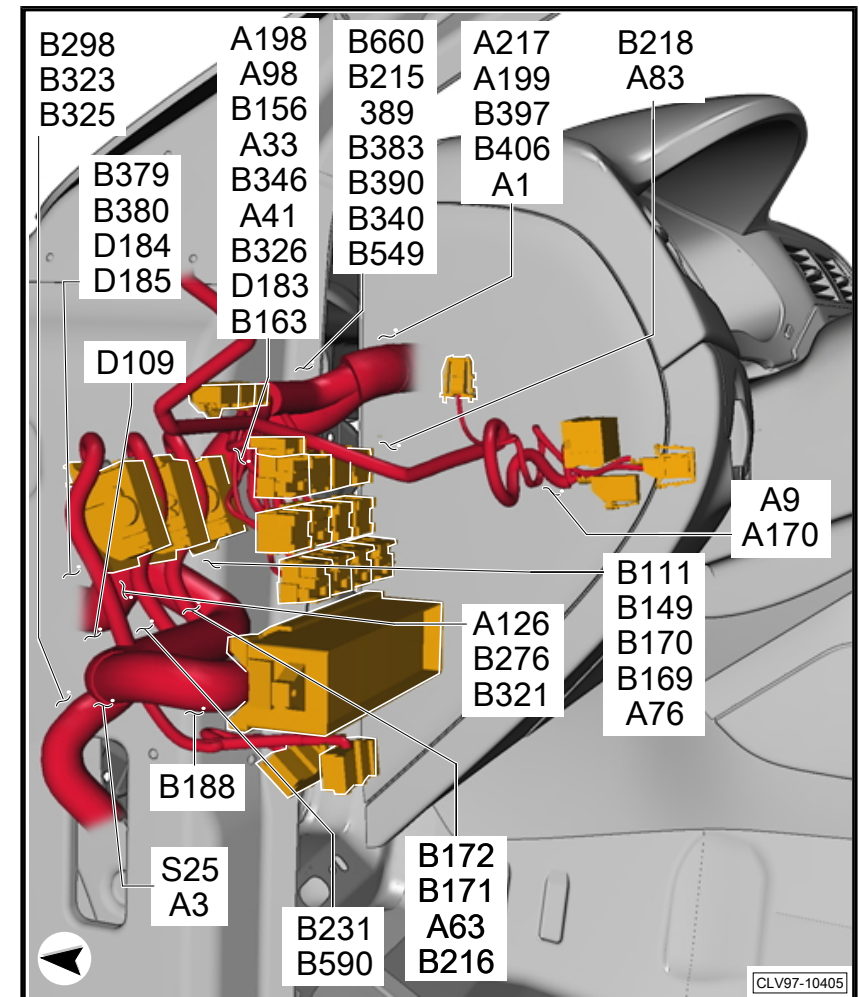
A126 - Rear lid contact switch connection (in instrument panel wiring harness)

A170 - Connection 58R (in instrument panel wiring harness) 2

A198 - Positive connection 6 (30a) (in instrument panel wiring harness)

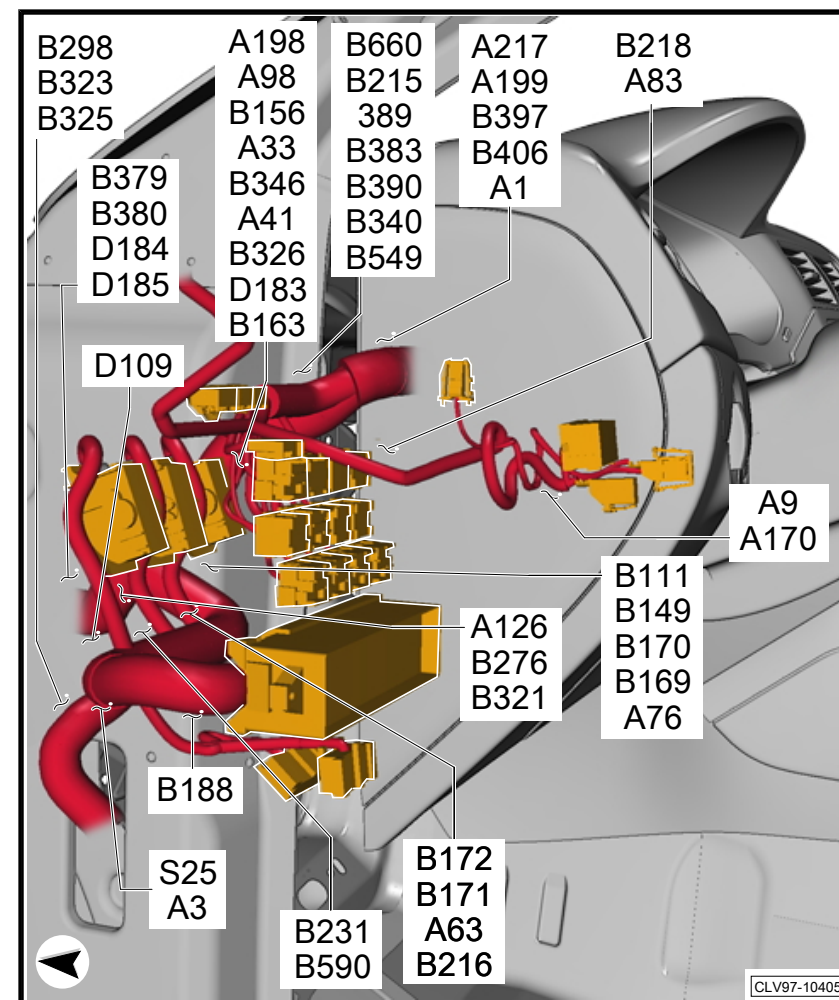
A199 - Positive connection 4 (15a) (in instrument panel wiring harness)

A217 - Positive connection 8 (15a) (in instrument panel wiring harness)



1.1.6 Instrument Panel, Left III

- B111 - Positive connection 1 (30a) (in interior wiring harness)
- B149 - Positive connection 2 (15a) (in interior wiring harness)
- B156 - Positive connection (30a) (in interior wiring harness)
- B163 - Positive connection 1 (15) (in interior wiring harness)
- B169 - Positive connection 1 (30) (in interior wiring harness)
- B170 - Positive connection 2 (30) (in interior wiring harness)
- B171 - Positive connection 3 (30) (in interior wiring harness)
- B172 - Positive connection 4 (30) (in interior wiring harness)
- B188 - Positive connection 5 (30) (in interior wiring harness)
- B215 - Central locking connection 2 (in interior wiring harness)
- B216 - Central locking connection 3 (in interior wiring harness)
- B218 - Positive connection 6 (30) (in interior wiring harness)
- B276 - Positive connection (50) (in main wiring harness)
- B298 - Positive connection 2 (30) (in main wiring harness)
- B321 - Positive connection 7 (30a) (in main wiring harness)
- B323 - Positive connection 9 (30a) (in main wiring harness)
- B325 - Positive connection 11 (30a) (in main wiring harness)
- B326 - Positive connection 12 (30a) (in main wiring harness)
- B231 - Positive connection 5 (30a) (in interior wiring harness)
- B340 - Connection 58d (in main wiring harness) 1
- B346 - Connection 75 (in main wiring harness) 1
- B379 - Brake wear indicator connection 1 (in main wiring harness)
- B380 - Brake wear indicator connection 2 (in main wiring harness)
- B383 - Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 - Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 - Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 - Comfort system CAN bus low connection 1 (in main wiring harness)



B549 - LIN bus connection 2 (in main wiring harness)

B590 - KS-diagnostic cable connection (in interior wiring harness)

B660 - Diagnostic terminal 50 connection (in main wiring harness)

D109 - Connection 7 (in engine compartment wiring harness)

D183 - Connection 87a (in engine compartment wiring harness) 4

D184 - Left front speed sensor positive connection (in engine compartment wiring harness)

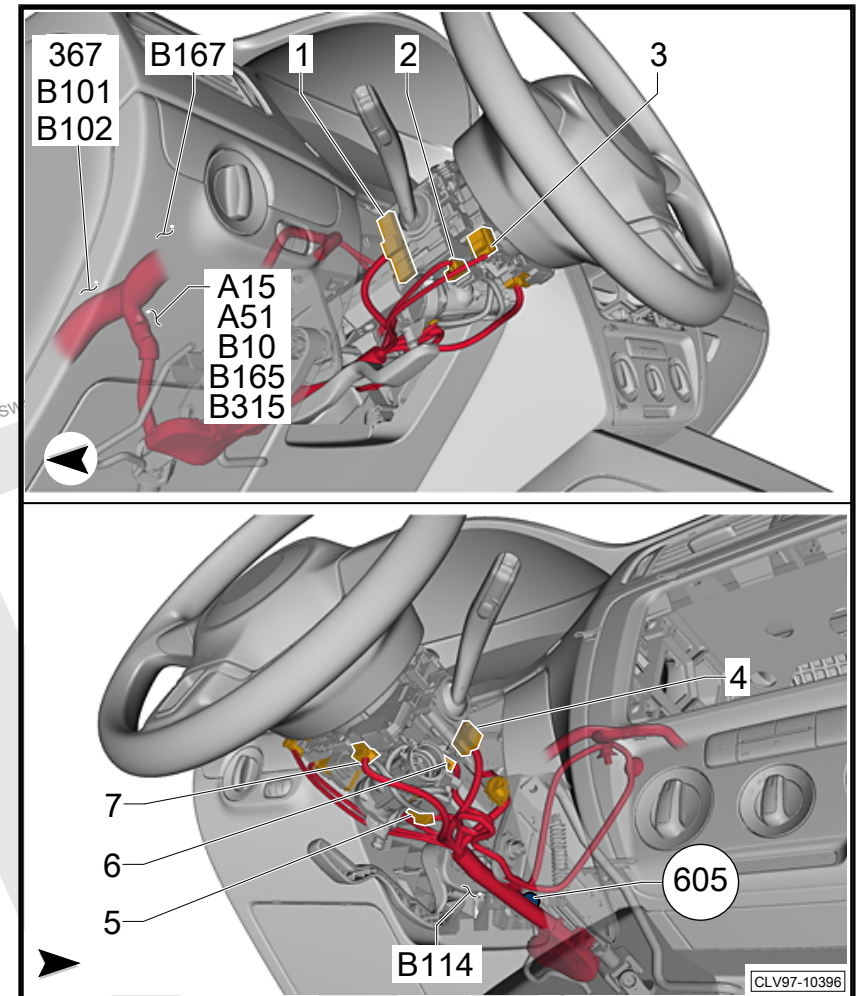
D185 - Left front speed sensor negative connection (in engine compartment wiring harness)

S25 - Positive connection (30a) (in central locking system wiring harness)



1.1.7 Steering, Part I

- 1 - Left steering column switch -EX19-
- 2 - Ignition/starter switch -D-
- 2 - Ignition switch key lock solenoid -N376-
- 3 - Airbag spiral spring/return spring with slip ring -F138-
- 4 - Right steering column switch -EX20-
- 5 - Electronic steering column lock control module -J764-
- 5 - Steering column lock actuator -N360-
- 6 - Anti-theft immobilizer reader coil -D2-
- 7 - Steering column electronics control module -J527-



1.1.8 Steering, Part II

367 - Ground connection 2 (in main wiring harness)

605 - Ground connection on upper steering column

A15 - Plus connection (15) (in instrument cluster wiring harness)

A51 - Connection 56 (in instrument panel wiring harness)

B10 - Positive connection (30) (in light switch wiring harness)

B101 - Left front speaker positive connection (in main wiring harness)

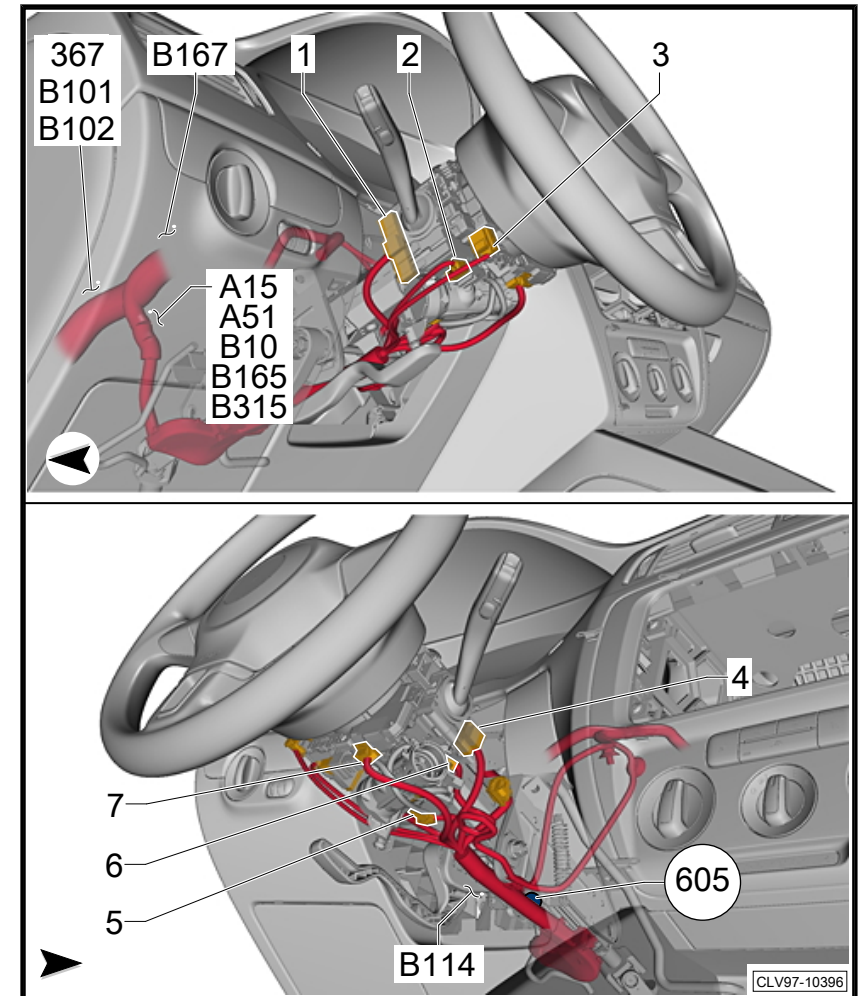
B102 - Left front speaker negative connection (in main wiring harness)

B114 - Lock switch connection

B165 - Positive connection 2 (15) (in interior wiring harness)

B167 - Connection 56b (in interior wiring harness)

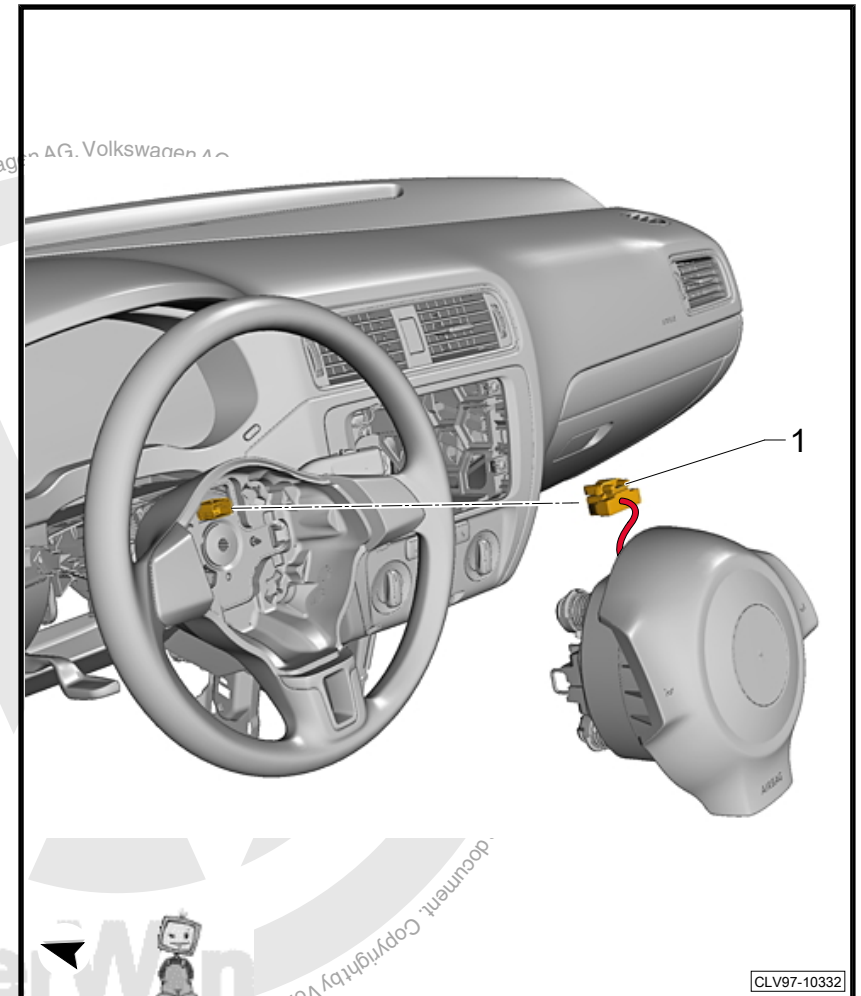
B315 - Positive connection 1 (30a) (in main wiring harness)



1.1.9 Steering, Part III

1 - Driver airbag igniter -N95-

- Multifunction steering wheel control module -J453- , not shown. Located on steering wheel integrated with Left multifunction buttons on steering wheel -E440- .



1.2 HVAC

◆ ⇒ ["1.2.1 Climatic, Part I", page 13](#)

◆ ⇒ ["1.2.2 Climatic, Part II", page 14](#)

♦ ⇒ "1.2.3 Climatronic, Part I", page 15

♦ ⇒ "1.2.4 Climatronic, Part II", page 16

1.2.1 Climatic, Part I

1 - 16-pin connector -T16e-

2 - 5-pin connector -T5-

3 - 10-pin connector

5 - Fresh air blower -V2-

6 - Fresh air blower series resistor with fuse -N24-

7 - Evaporator vent temperature sensor -G263-

8 - Evaporator vent temperature sensor connector

9 - Air distribution door motor position sensor -G645-

9 - Air distribution door motor -V428-

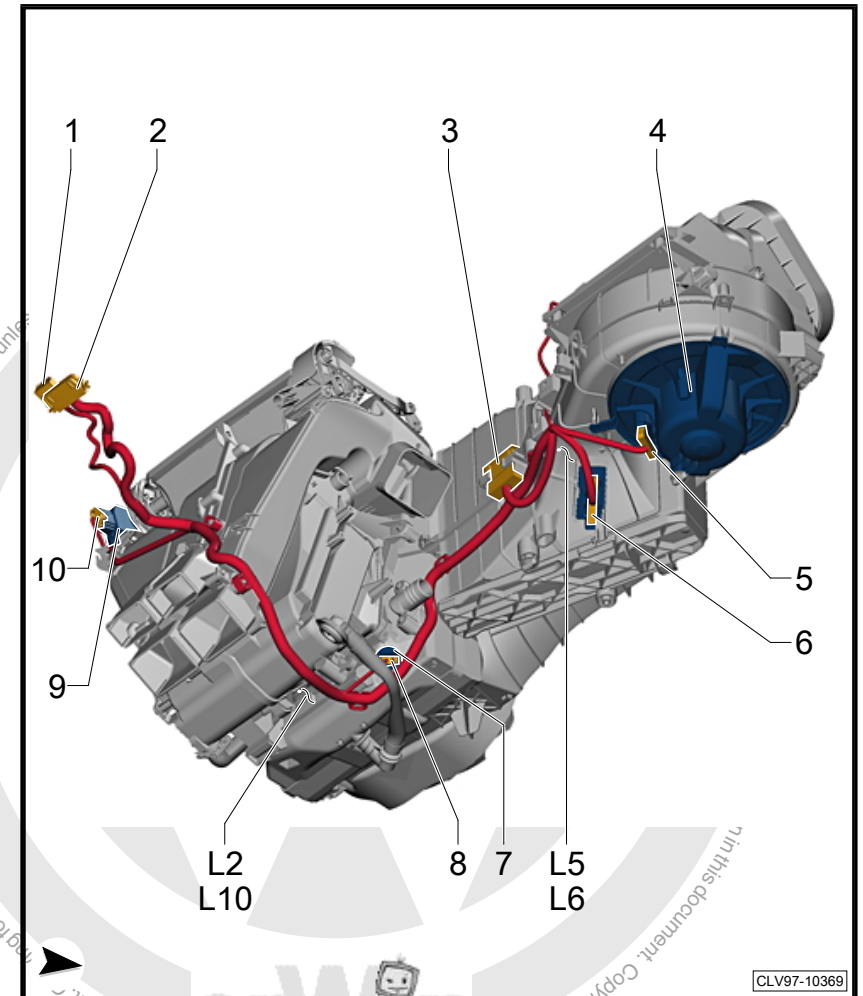
10 - 6-pin connector

L2 - Connection (in A/C system wiring harness)

L5 - Connection 1 (in A/C unit wiring harness)

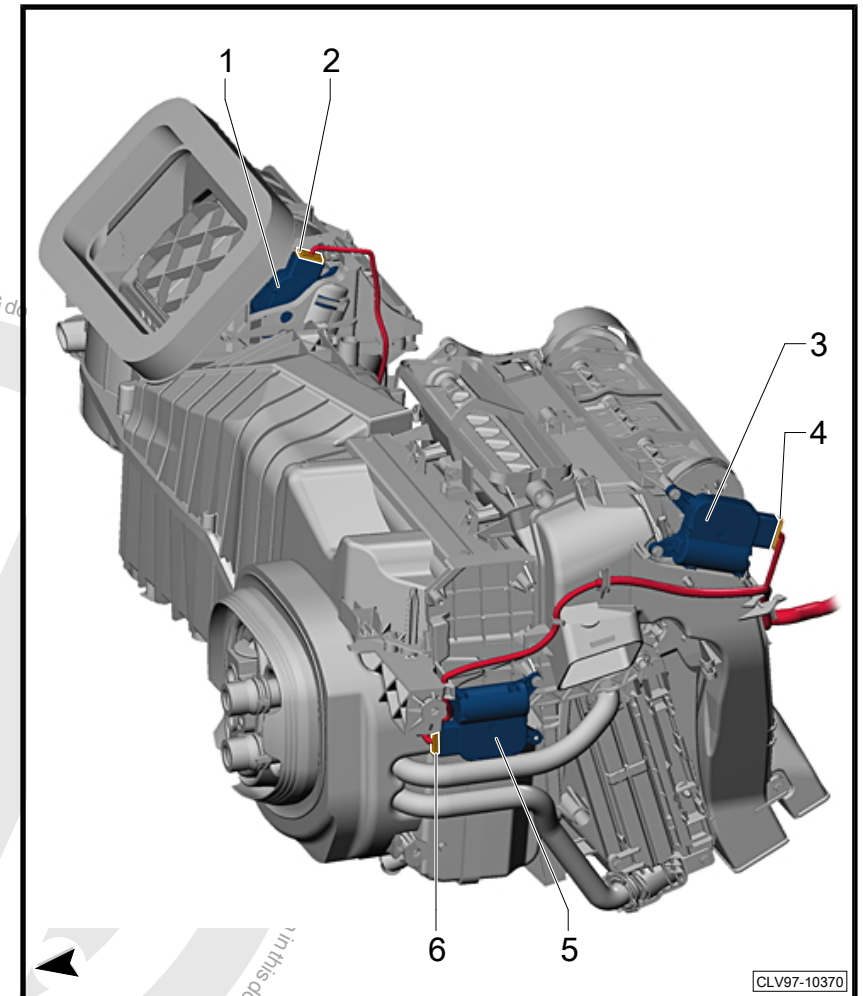
L6 - Connection 2 (in A/C unit wiring harness)

L10 - Connection 2 (in A/C system wiring harness)



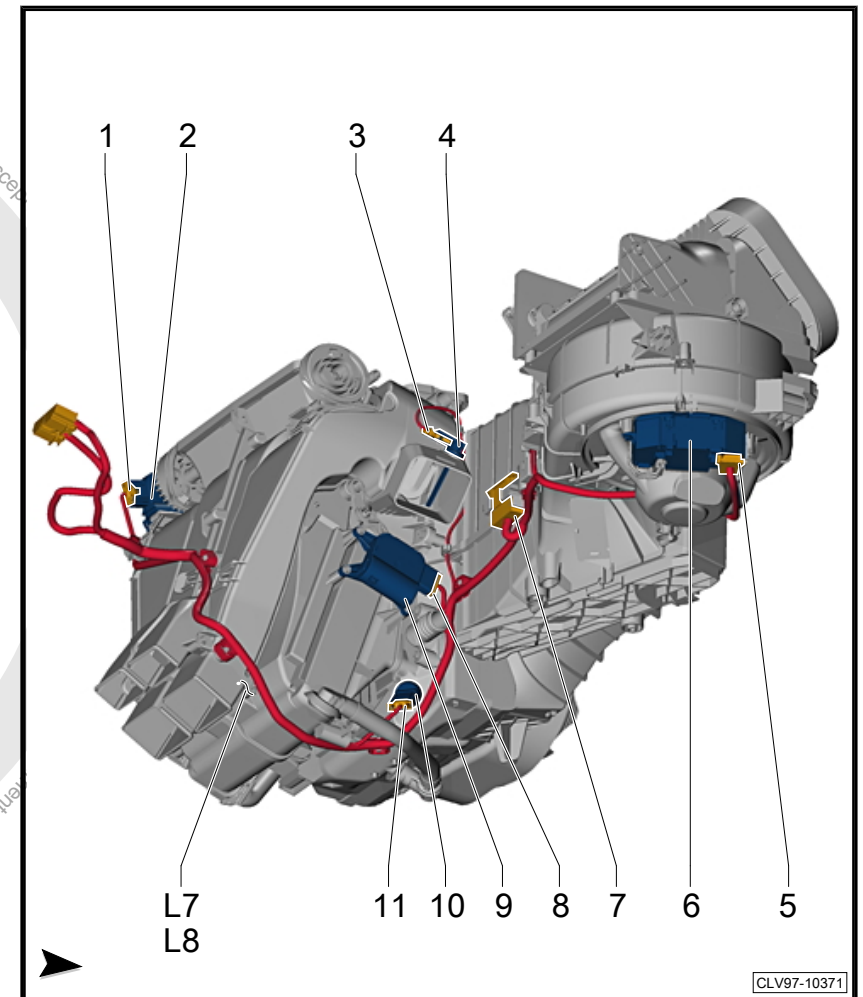
1.2.2 Climatic, Part II

- 1 - Recirculation door motor -V113-
- 1 - Fresh/recirculated air door motor -V154-
- 1 - Recirculation door motor position sensor -G143-
- 2 - 6-pin connector -T6k-
- 3 - Air distribution door motor position sensor -G645-
- 4 - 6-pin connector -T6aj-
- 5 - Left temperature door potentiometer/actuator -G220-
- 5 - Temperature regulator door motor -V68-
- 5 - Footwell vent temperature sensor -G192- not shown
- 5 - Auxiliary heater heating element -Z35- (not shown). Located near G220.
- 6 - 6-pin connector -T6m-



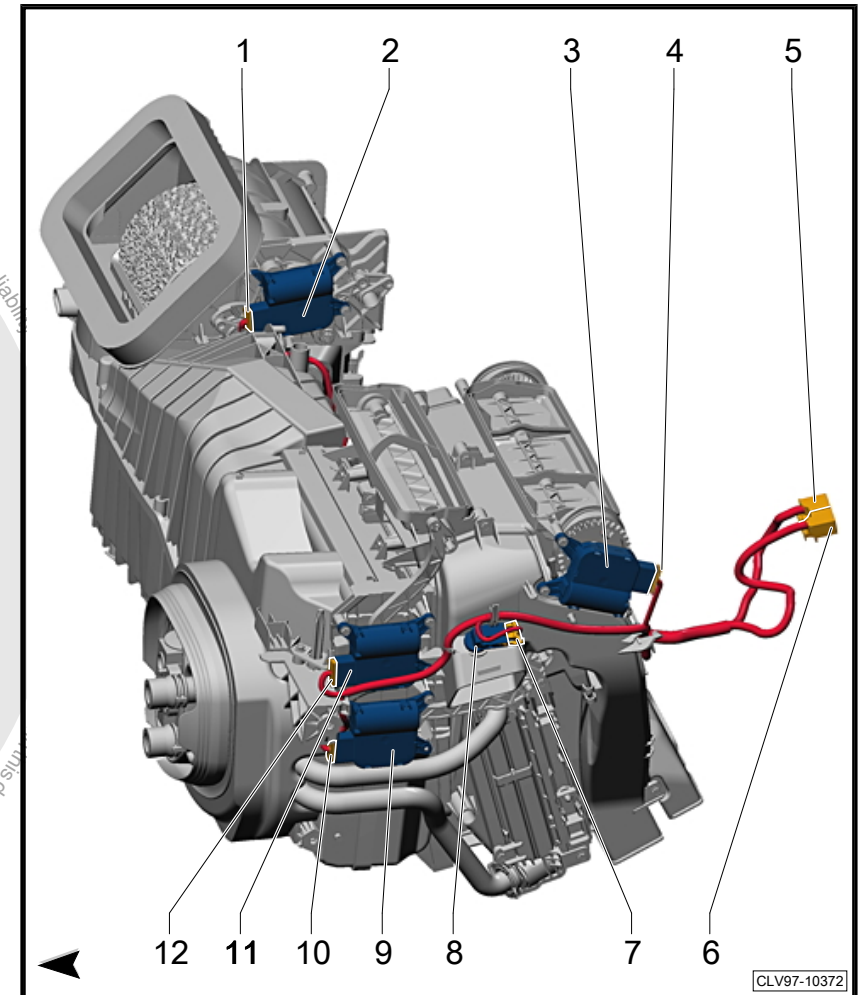
1.2.3 Climatronic, Part I

- 1 - 6-pin connector -T6n-
- 2 - Central door motor position sensor -G112-
- 2 - Central air door motor -V70-
- 3 - Double connector -T2db-
- 4 - Right footwell vent temperature sensor -G262-
- 5 - 6-pin connector -T6u-
- 6 - Fresh air blower control module -J126-
- 7 - 10-pin connector
- 8 - 6-pin connector -T6l-
- 9 - Right temperature door potentiometer/actuator -G221-
- 9 - Right temperature door motor -V159-
- 10 - Evaporator temperature sensor -G308-
- 11 - Double connector -T2j-
- L7 - Connection 3 (in A/C unit wiring harness)
- L8 - Connection 4 (in A/C unit wiring harness)



1.2.4 Climatronic, Part II

- 1 - 6-pin connector -T6r-
- 2 - Fresh air/recirculating air/back pressure door motor position sensor -G644-
- 2 - Fresh air/recirculating air/back pressure door motor -V425-
- 3 - Central door motor position sensor -G112-
- 4 - 6-pin connector -T6n-
- 5 - 16-pin connector -T16g-
- 6 - 16-pin connector -T16e-
- 7 - Double connector -T2da-
- 7 - Auxiliary heater heating element -Z35- (not shown). Located near T2da.
- 8 - Left footwell vent temperature sensor -G261-
- 9 - Left temperature door motor -V158-
- 9 - Left temperature door potentiometer/actuator -G220-
- 10 - 6-pin connector -T6p-
- 11 - Defroster door motor position sensor -G135-
- 11 - Defroster door motor -V107-
- 12 - 6-pin connector -T6q-

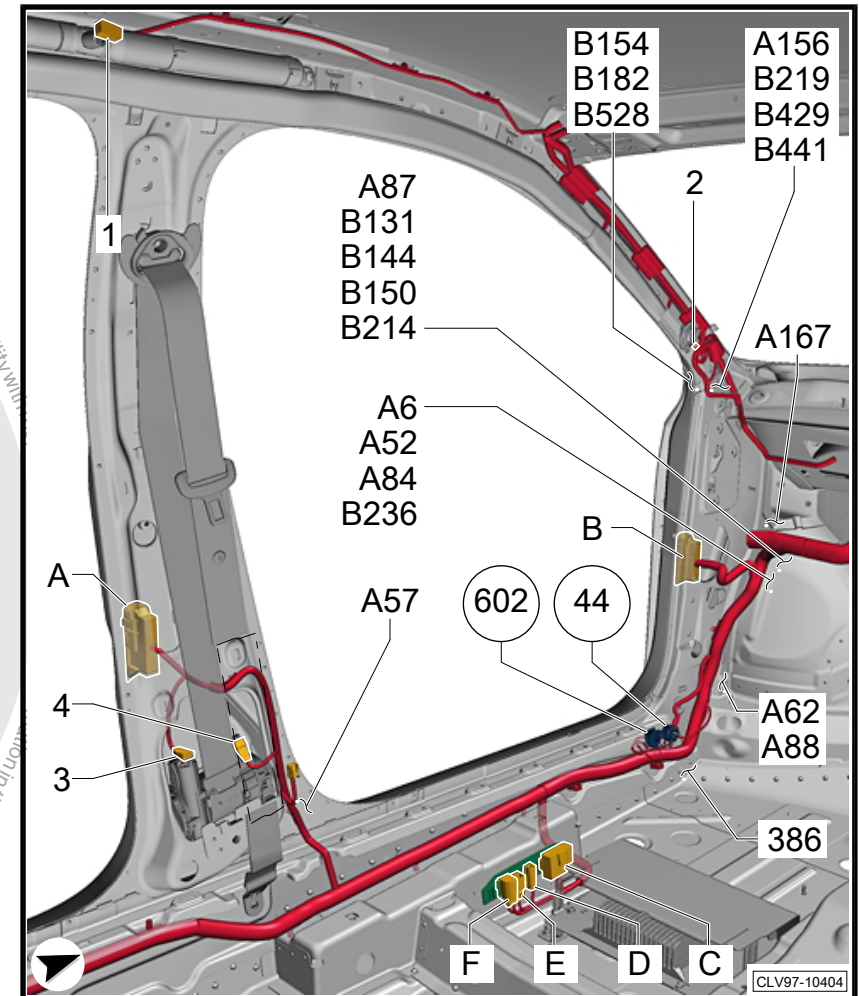


1.3 A/B Pillar, Left

- ◆ ⇒ ["1.3.1 A/B Pillar Area, Left I", page 17](#)
- ◆ ⇒ ["1.3.2 A/B Pillar, Left II", page 18](#)

1.3.1 A/B Pillar Area, Left I

- 1 - Driver head curtain airbag igniter -N251-
- 2 - Left front treble speaker -R20-
- 3 - Driver seat belt tensioner igniter 1 -N153-
- 4 - Driver belt force limiter -G551-
- 4 - Driver thorax airbag igniter -N199- not shown. Located in side of seat back.
- A - 28-pin connector -T28b-
- B - 28-pin connector -T28-
- B - 32-pin connector -T32f-
- C - 10-pin connector -T10c-
- C - Driver seat position sensor -G553- connection
- D - 3-pin connector -T3k-
- E - 3-pin connector -T3ar-
- F - Double connector -T2q-



1.3.2 A/B Pillar, Left II

44 - Ground connection on A-pillar, lower left

386 - Ground connection 21

602 - Ground connection in left front footwell

A57 - Positive connection 3 (30)

A62 - Power window connection

A87 - Back-up lamp connection (in instrument panel wiring harness)

A88 - Fog lamp connection

A156 - Sensor ground connection (53c) (in instrument panel wiring harness)

A167 - Positive connection 3 (30a) (in instrument panel wiring harness)

B131 - Connection 54 (in interior wiring harness)

B144 - Positive connection (58L) (in interior wiring harness)

B150 - Positive connection 2 (30a) (in interior wiring harness)

B154 - Connection TK (in interior wiring harness) 1

B182 - Connection RF (in interior wiring harness)

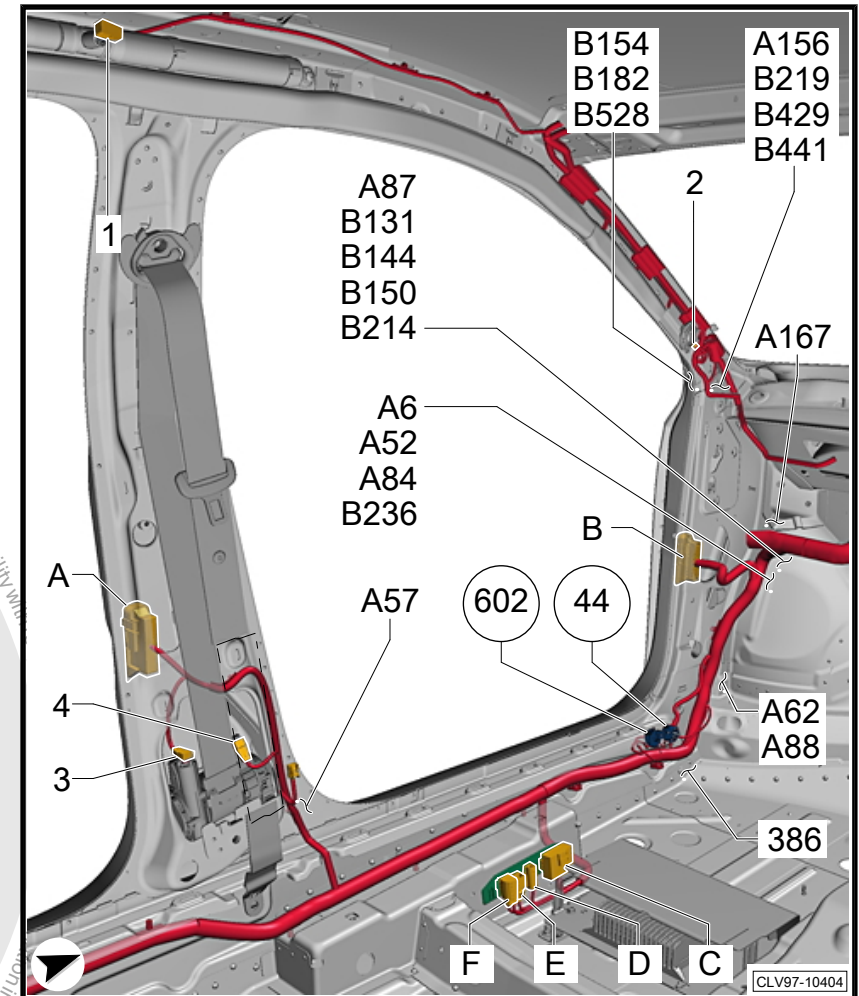
B214 - Central locking connection 1 (in interior wiring harness)

B219 - Positive connection 4 (30a) (in interior wiring harness)

B429 - Fuel pump relay connection (in main wiring harness)

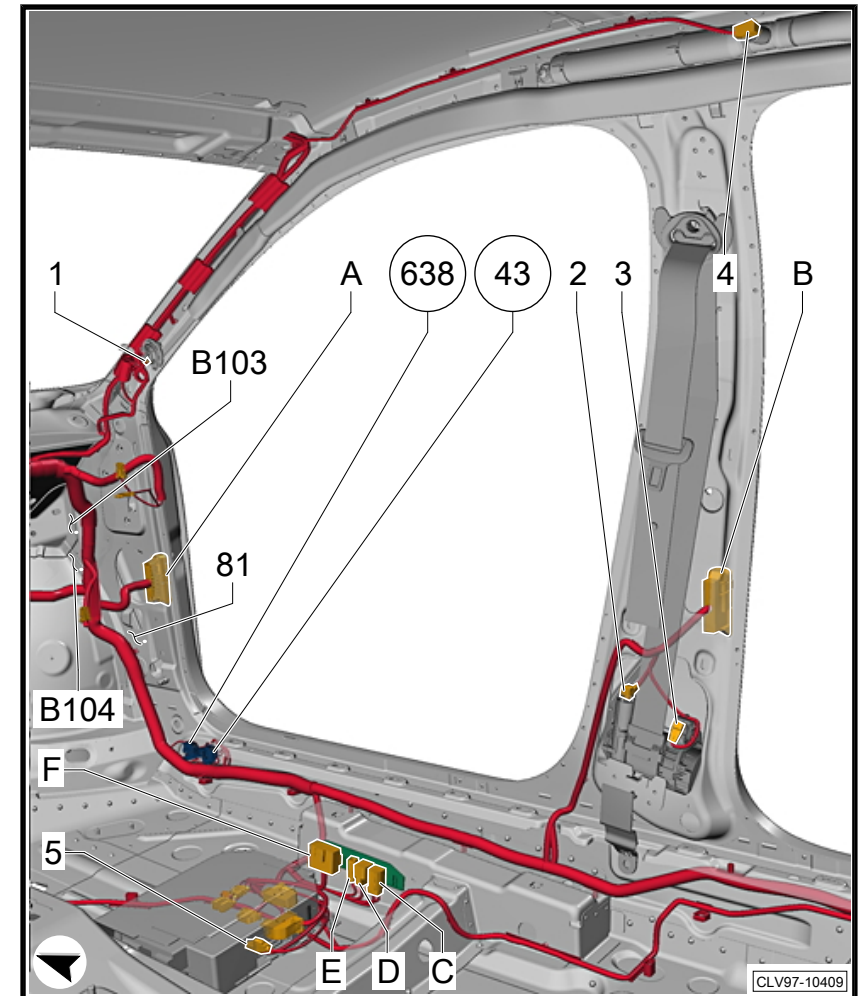
B441 - Cruise control connection (in main wiring harness)

B528 - LIN bus connection 1 (in main wiring harness)



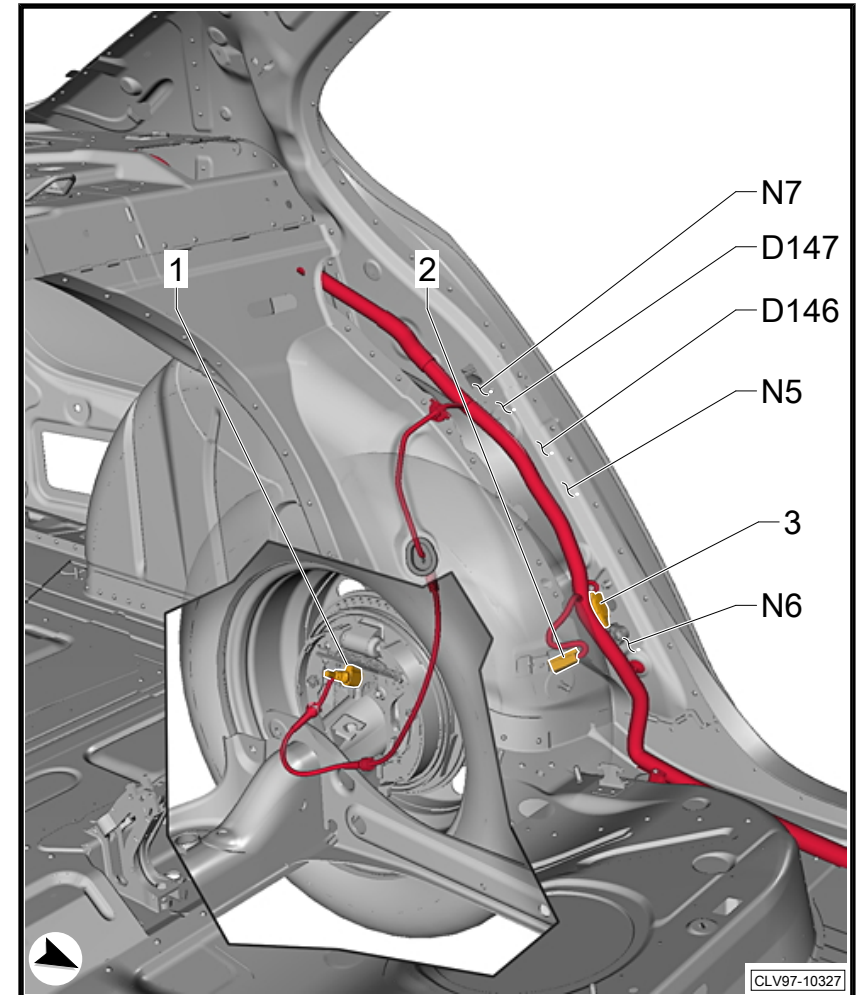
1.4 A/B Pillar, Right

- 1 - Right front treble speaker -R22-
- 2 - Front passenger seat belt tensioner igniter 1 -N154-
- 3 - Front passenger belt force limiter -G552-
- 4 - Front passenger head curtain airbag igniter -N252-
- 4 - Front passenger thorax airbag igniter -N200- not shown. Located in side of seat back.
- 5 - Telephone transceiver -R36-
 - GSM Antenna
- 43 - Ground connection on A-pillar, lower right
- 638 - Ground connection on right A-pillar
- A - 28-pin connector -T28a-
- B - 28-pin connector -T28c-
- B103 - Right front speaker positive connection
- B104 - Right front speaker negative connection
- C - Front passenger seat belt switch -E25-
- D - 10-pin connector -T10b-
- D - Front passenger seat position sensor -G554- connection
- D - Passenger occupant detection system control module -J706- connection
- D - Passenger occupant detection system pressure sensor -G452- connection
- E - 3-pin connector -T3I-
- F - 10-pin connector -T10d-



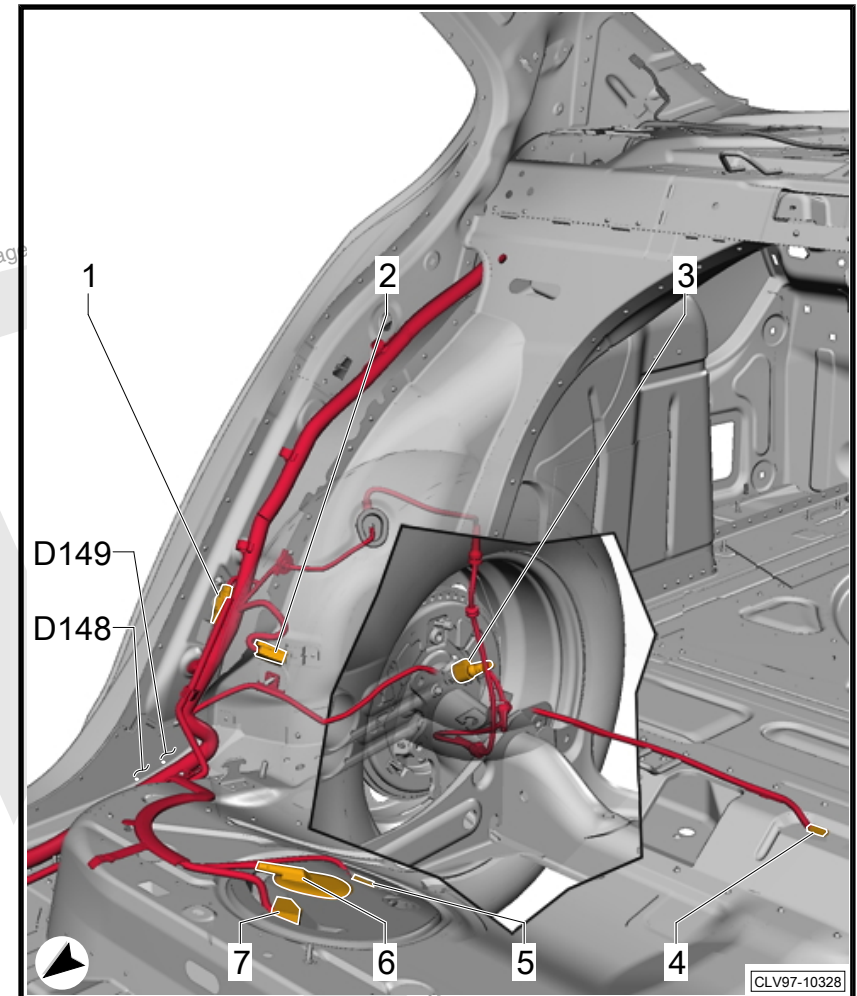
1.5 C Pillar, Left

- 1 - Left rear ABS wheel speed sensor -G46-
- 2 - Driver side rear thorax airbag igniter -N201-
- 3 - Driver side rear side airbag crash sensor -G256-
- D146 - Left rear speed sensor positive connection
- D147 - Left rear speed sensor negative connection
- N5 - Connection 4 (in body wiring harness)
- N6 - Connection 5 (in body wiring harness)
- N7 - Connection 6 (in body wiring harness)



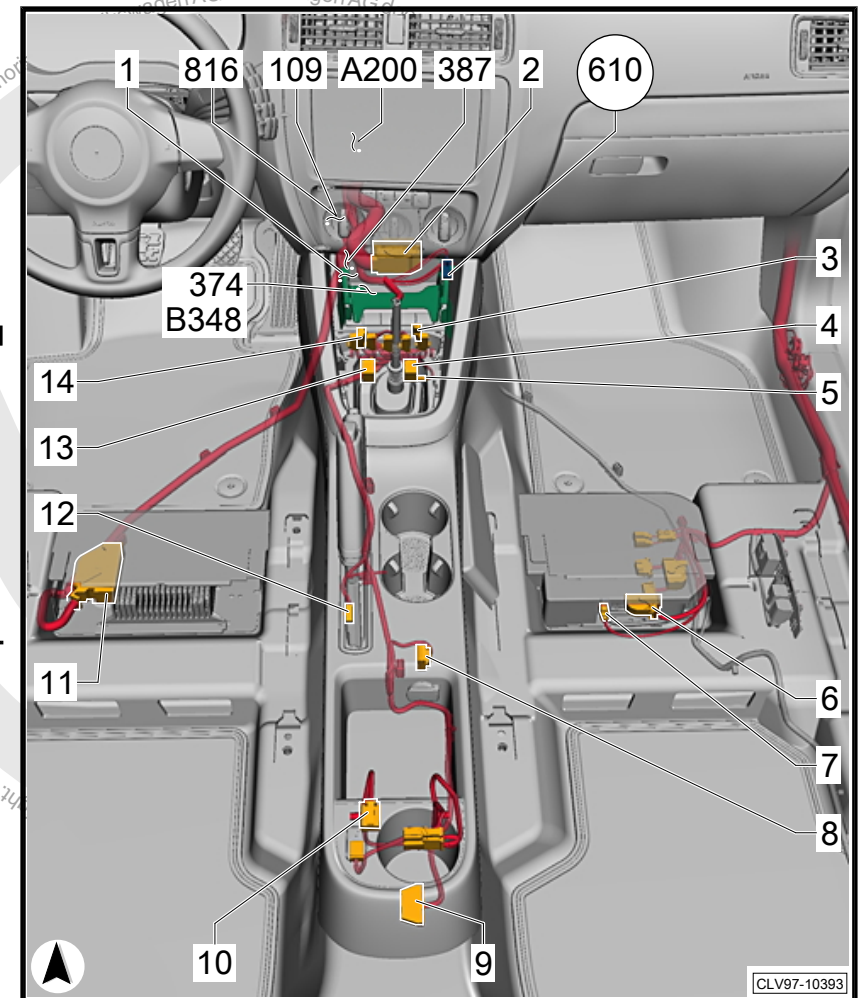
1.6 C Pillar, Right

- 1 - Passenger side rear side airbag crash sensor -G257-
- 2 - Passenger side rear thorax airbag igniter -N202-
- 3 - Right rear ABS wheel speed sensor -G44-
- 4 - Access/start system antenna 2 in vehicle interior -R139- - Optional
- 5 - Fuel tank pressure sensor -G400-
- 6 - Transfer fuel pump -G6-
- 6 - Fuel level sensor -G-
- 7 - Fuel delivery unit -GX1-
- 7 - Fuel pump control module -J538-
- D148 - Right rear speed sensor positive connection
- D149 - Right rear speed sensor negative connection



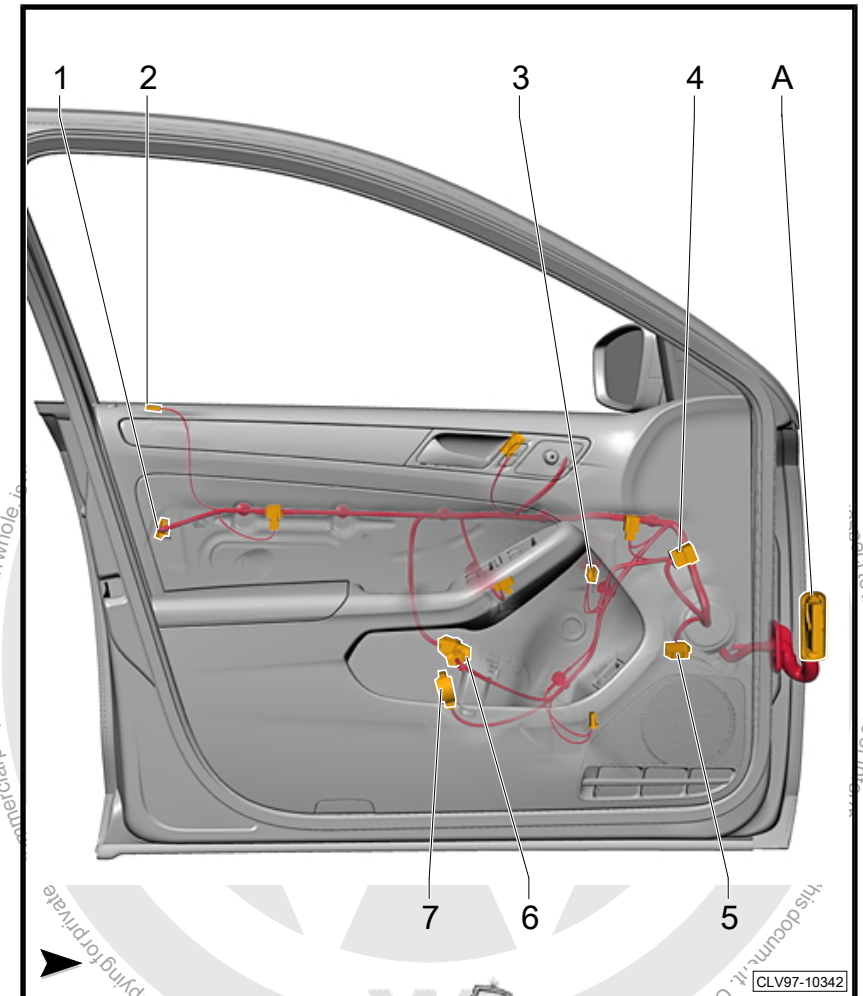
1.7 Floor

- 1 - Blocking diode -J29-
- 2 - Airbag control module -J234-
- 3 - External audio source connection -R199-
- 4 - Selector lever sensor system control module -J587-
- 4 - tiptronic switch -F189-
- 5 - Access/start system antenna 1 in vehicle interior -R138-
- 6 - 54-pin connector -T54-
- 6 - Control module for emergency call module and communication unit -J949- , not shown. Located under passenger seat.
- 7 - Telephone transceiver
- 8 - 12 V socket -U5-
- 9 - Converter with socket, 12 V-230 V -U13-
- 9 - Interior socket, 230 V, 110 V -U11-
- 10 - 3-pin connector -T3j-
- 10 - Cell phone operating electronics control module -J412- , not shown. Located in center console.
 - ❑ Alternate location above glove box depending on equipment. ⇒ [Item 5 \(page 4\)](#)
- 11 - Amplifier -R12-
- 12 - Parking brake indicator lamp switch -F9-
- 13 - Multifunction transmission range switch -F125-
- 13 - Shift lock solenoid -N110-
- 14 - Cigarette lighter -U1-
- 109 - Ground connection (in airbag wiring harness)
- 374 - Ground connection 9 (in main wiring harness)
- 387 - Ground connection 22 (in main wiring harness)
- 610 - Audio ground connection under front center console
- 816 - Ground connection 1 in Hybrid System wiring harness - Hybrid vehicle option
- A200 - Positive connection 5 (15a) (in instrument panel wiring harness)
- B348 - Connection 75a (in main wiring harness) 1



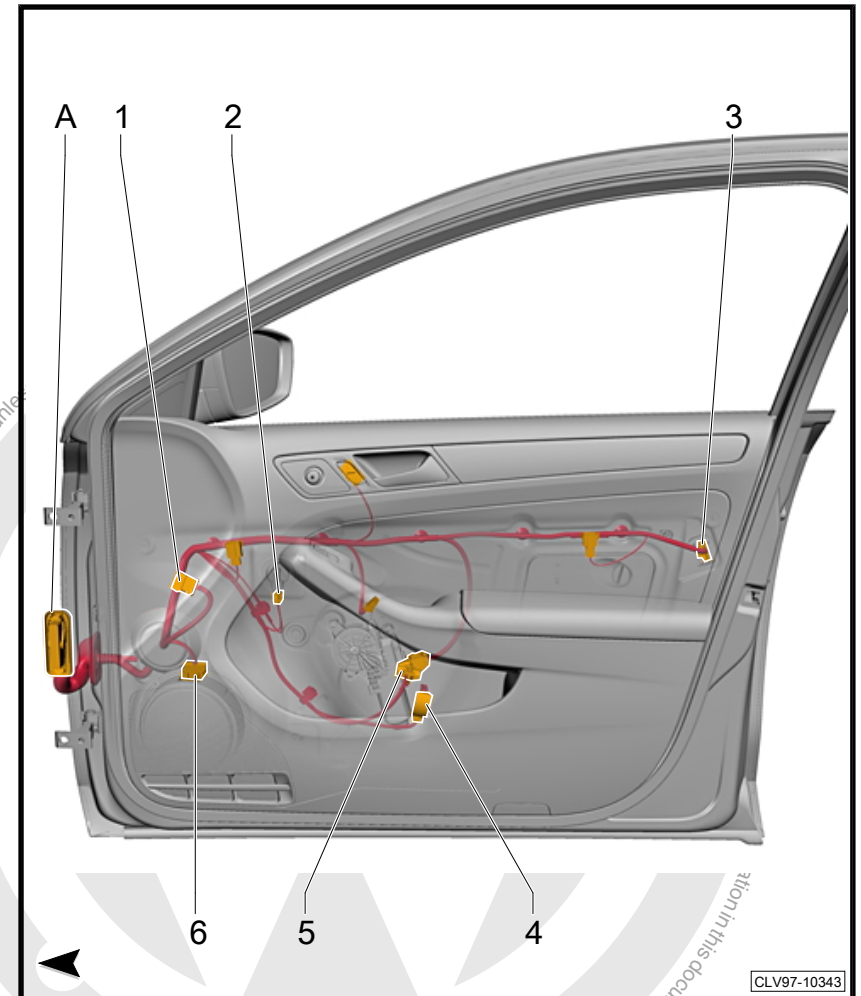
1.8 Door, LF

- 1 - Driver central locking lock unit -F220-
- 1 - Driver door contact switch -F2-
- 1 - Driver door central locking system motor -V56-
- 1 - Driver access/start system antenna -R134- in door handle.
- 2 - Central locking -SAFE- indicator lamp -K133-
- 3 - Driver side airbag crash sensor -G179-
- 4 - Driver exterior rearview mirror -VX4- - connector
- 5 - Left front bass speaker -R21-
- 5 - Left front midrange speaker -R103- , not shown. Located in door.
- 6 - Driver door control module -J386-
- 6 - Driver window regulator motor -V147-
- 7 - 32-pin connector -T32a- - for highline (AW1)
- A - 28-pin connector -T28-



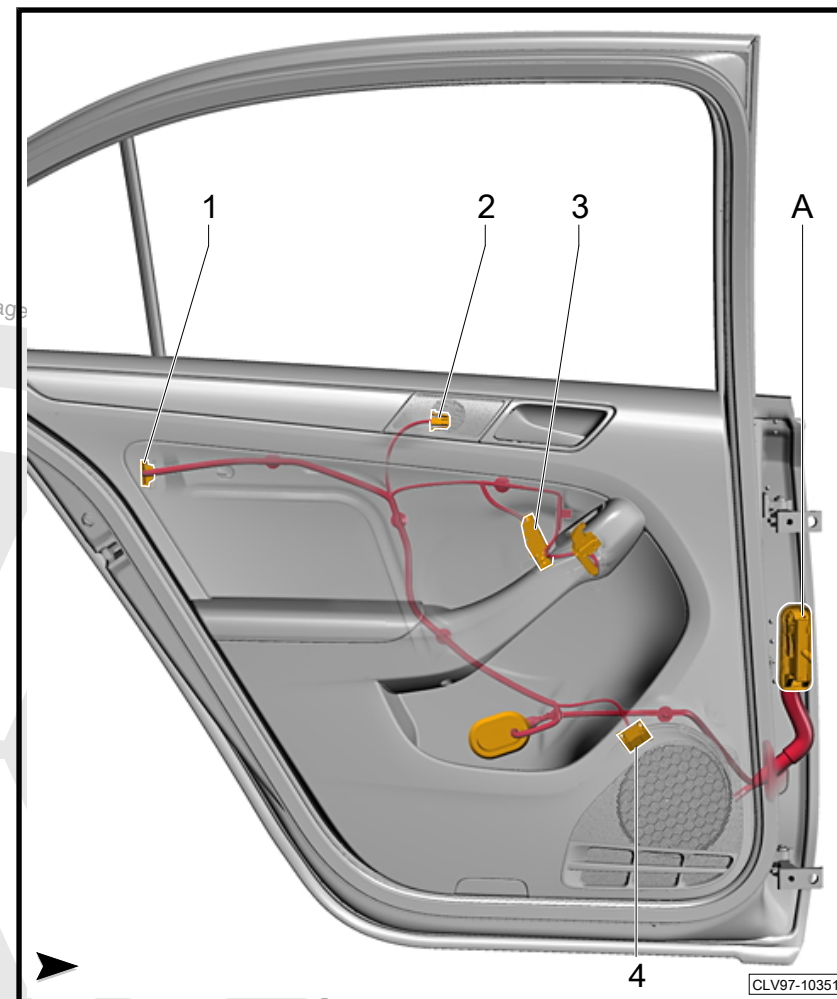
1.9 Door, RF

- 1 - Front passenger exterior rearview mirror -VX5- connector take off
- 2 - Front passenger side airbag crash sensor -G180-
- 3 - Front passenger central locking lock unit -F221-
- 3 - Front passenger door contact switch -F3-
- 3 - Front passenger door central locking system motor -V57-
- 3 - Front passenger exterior door handle touch sensor -G416- in door handle.
- 3 - Front passenger access/start system antenna -R135- in door handle.
- 4 - Front passenger door control module -J387-
- 5 - Front passenger window regulator motor -V148-
- 6 - Right front bass speaker -R23-
- 6 - Right front midrange speaker -R104- , not shown. Located in door.
- A - 28-pin connector



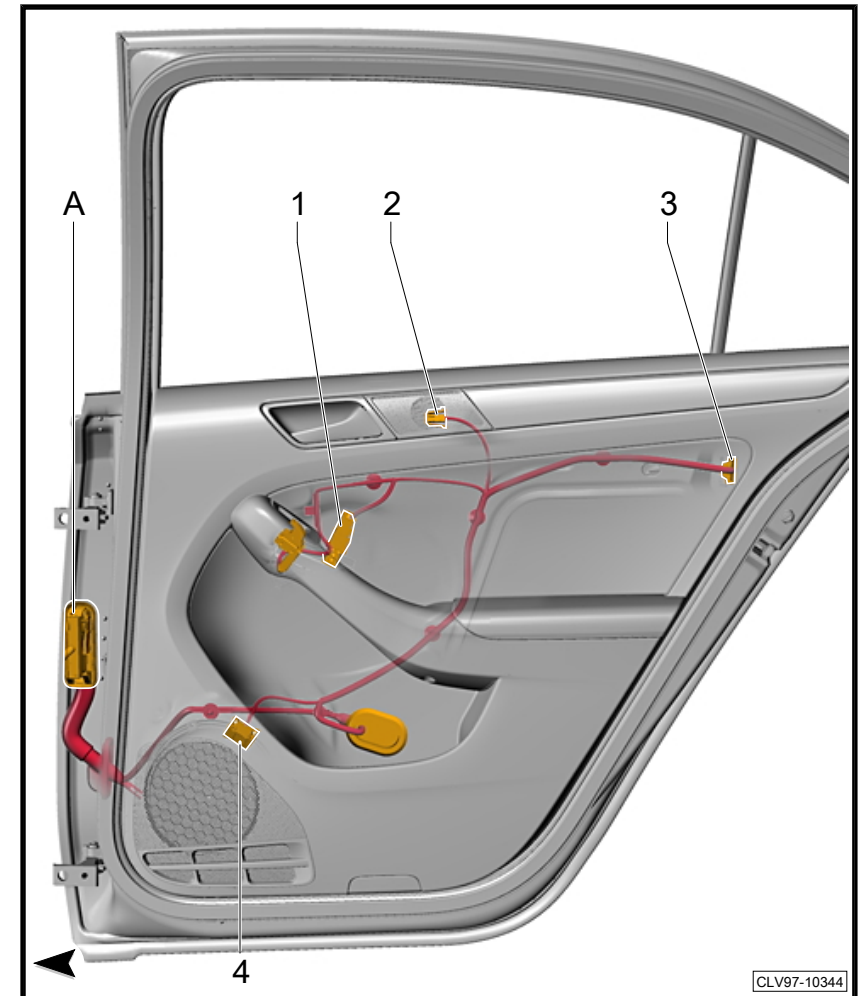
1.10 Door, LR

- 1 - Left rear central locking lock unit -F222-
- 1 - Left rear door contact switch -F10-
- 1 - Left rear central locking -lock- motor -V214-
- 2 - Left rear treble speaker -R14-
- 3 - Left rear door control module -J388-
- 3 - Left rear window regulator motor -V26-
- 3 - 16-pin connector -T16h- - for lowline (AW0)
- 3 - 18-pin connector -T18b- - for highline (AW1)
- 4 - Left rear bass speaker -R15-
- A - 28-pin connector -T28b-



1.11 Door, RR

- 1 - Right rear door control module -J389-
- 1 - Right rear window regulator motor -V27-
- 2 - Right rear treble speaker -R16-
- 3 - Right rear central locking lock unit -F223-
- 3 - Right rear door contact switch -F11-
- 3 - Right rear central locking -lock- motor -V215-
- 4 - Right rear bass speaker -R17-
- A - 28-pin connector

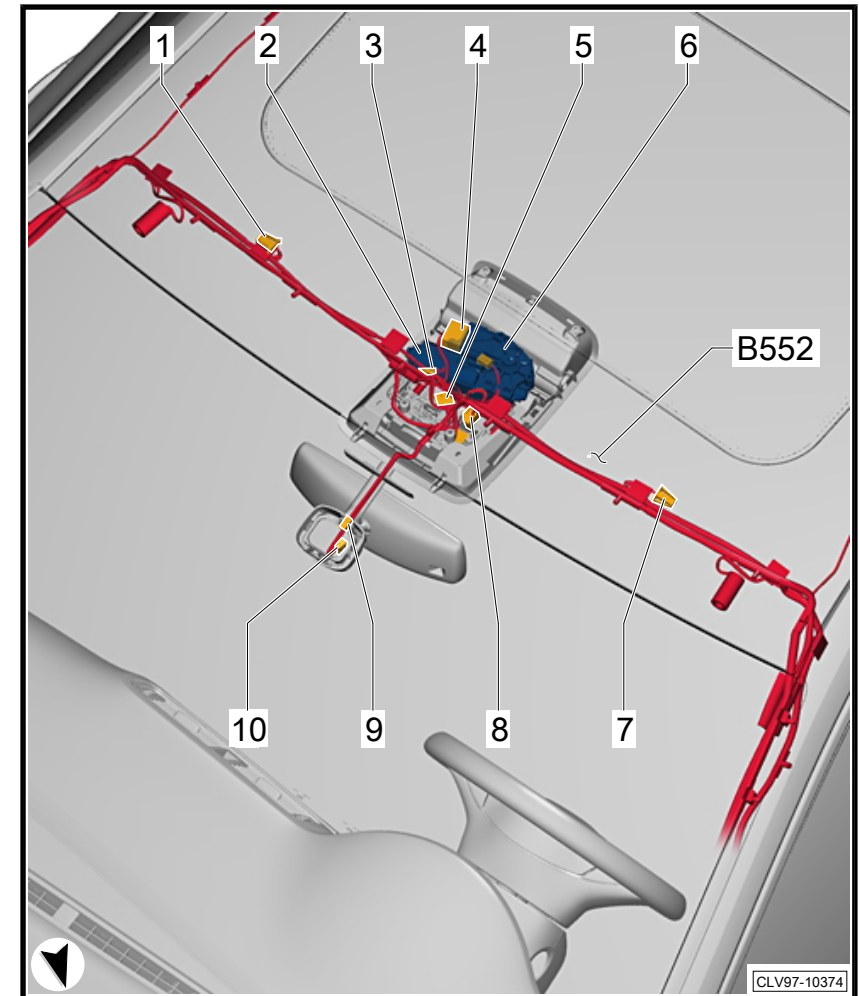


1.12 Roof

- ◆ ⇒ ["1.12.1 Roof, Part I", page 27](#)
- ◆ ⇒ ["1.12.2 Roof, Part II", page 28](#)

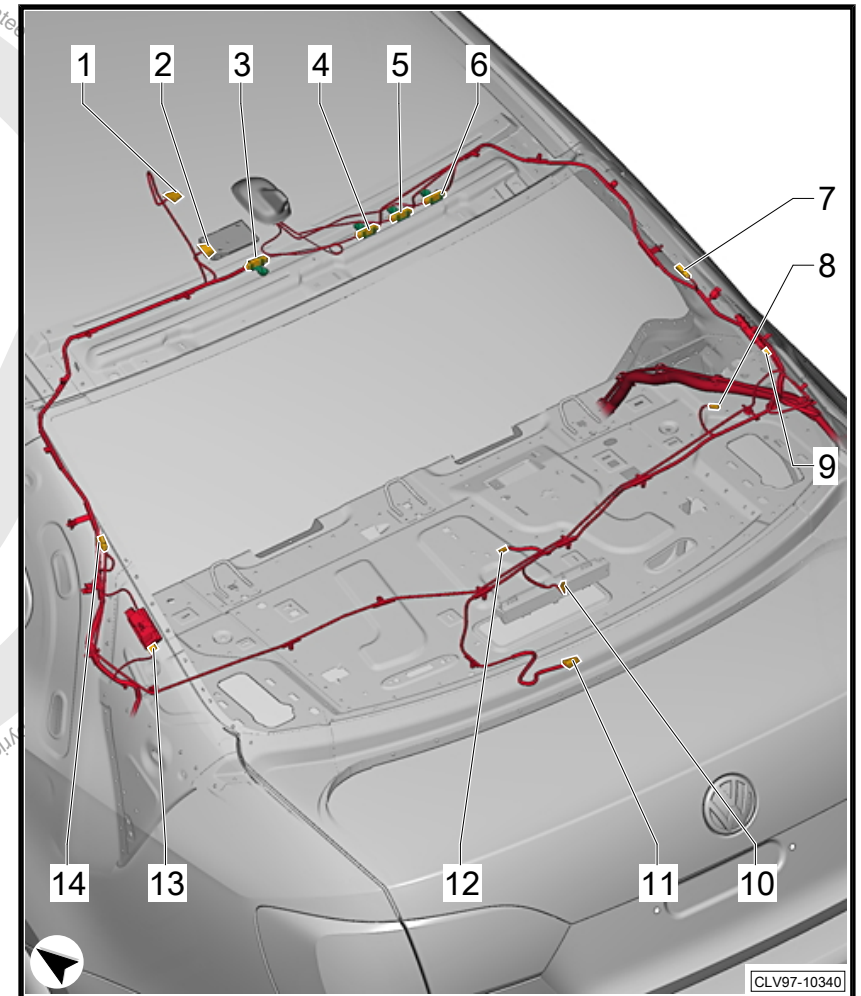
1.12.1 Roof, Part I

- 1 - Front passenger vanity mirror lamp -W14-
- 2 - Sunroof motor -V1-
- 3 - Telephone microphone -R38-
- 4 - 10-pin connector -T10e-
- 5 - Interior lamp with delay switch -W15- Lowline (AW0)
- 6 - Power sunroof control module -J245-
- 6 - Interior monitoring sensor -G273-
- 7 - Driver vanity mirror lamp -W20-
- 8 - Front interior lamp -W1- - Highline (AW1)
- 8 - Cellular telephone preparation control head -E508-
- 9 - Rain/light recognition sensor -G397-
- 10 - Automatic dimming interior rearview mirror -Y7-
- B552 - Positive connection 2 (in roof wiring harness)



1.12.2 Roof, Part II

- 1, 2 - Rear interior lamp -W43-
- 3 - Antenna -R11-
- 4 - Satellite antenna -R170-
- 5 - GPS antenna -R50-
- 6 - Telephone antenna -R65-
- 7 - Rear window defogger -Z1-
- 7 - Digital radio antenna -R183-
- 8 - Rear parking aid warning buzzer -H15-
- 9 - FM frequency filter in negative wire -R178-
- 9 - Right antenna module -R109-
- 10 - High-mounted brake lamp bulb -M25-
- 11 - Luggage compartment lamp -W3-
- 12 - Access/start system antenna in luggage compartment -R137-
- 13 - FM frequency filter in positive wire -R179-
- 13 - Left antenna module -R108-
- 14 - Radio antenna 2 -R93-



1 Comp. Loc.: Vehicle Under Body

◆ ⇒ [“1.1 Exhaust System”, page 1](#)

1.1 Exhaust System

◆ ⇒ [“1.2 1.4L TFSI, CNLA”, page 1](#)

◆ ⇒ [“1.7 1.8L TFSI, CPKA/CPRA”, page 8](#)

◆ ⇒ [“1.8 2.0L TFSI, CPLA/CPPA”, page 9](#)

◆ ⇒ [“1.3 2.0L TDI, CJAA”, page 2](#)

◆ ⇒ [“1.4 2.0L MPI, CBPA”, page 5](#)

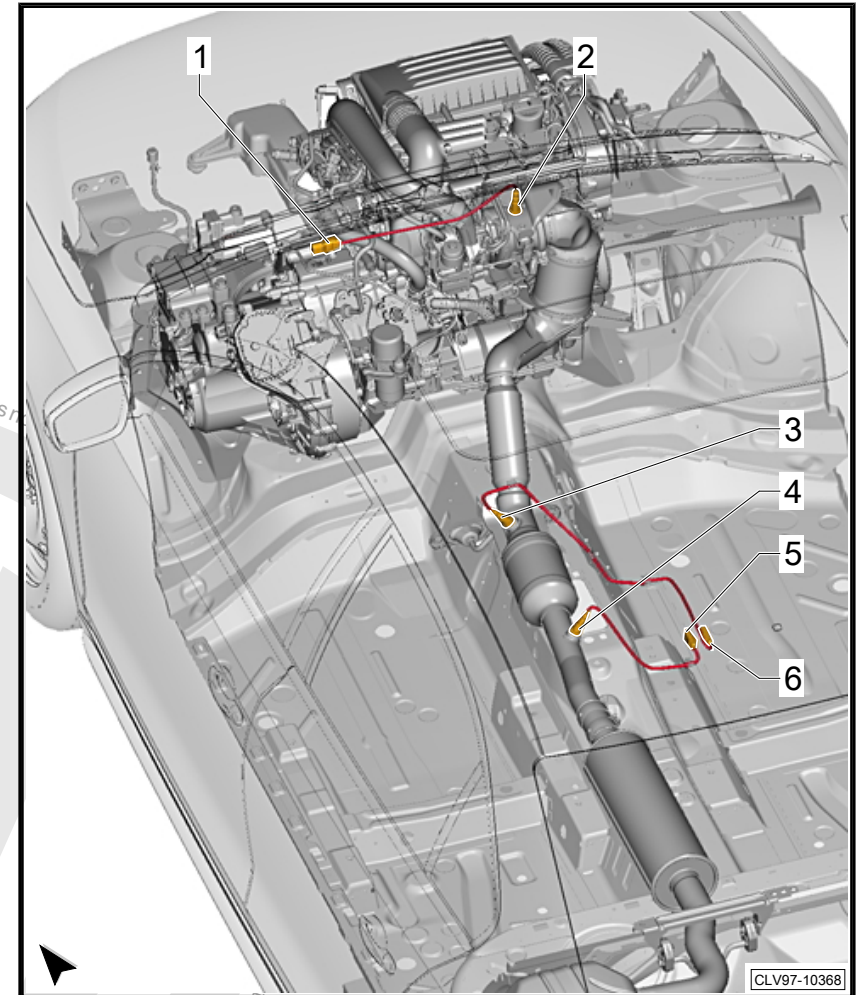
◆ ⇒ [“1.5 2.0L TFSI, CCTA/CBFA”, page 6](#)

◆ ⇒ [“1.6 2.5L SRE, CBTA/CBUA”, page 7](#)

1.2 1.4L TFSI, CNLA



- 1 - 6-pin connector -T6w-
- 2 - Oxygen sensor 1 before catalytic converter -GX10-
- 2 - Heated oxygen sensor -G39-
- 2 - Oxygen sensor heater -Z19-
- 3 - Oxygen sensor 2 before catalytic converter -GX11-
- 3 - Oxygen sensor 2 heater -Z28-
- 3 - Heated oxygen sensor 2 -G108-
- 4 - Oxygen sensor 1 after catalytic converter -GX7-
- 4 - Heater for oxygen sensor 1 after catalytic converter -Z29-
- 4 - Oxygen sensor after three way catalytic converter -G130-
- 5 - 4-pin connector -T4ao-
- 6 - 4-pin connector -T4ap-

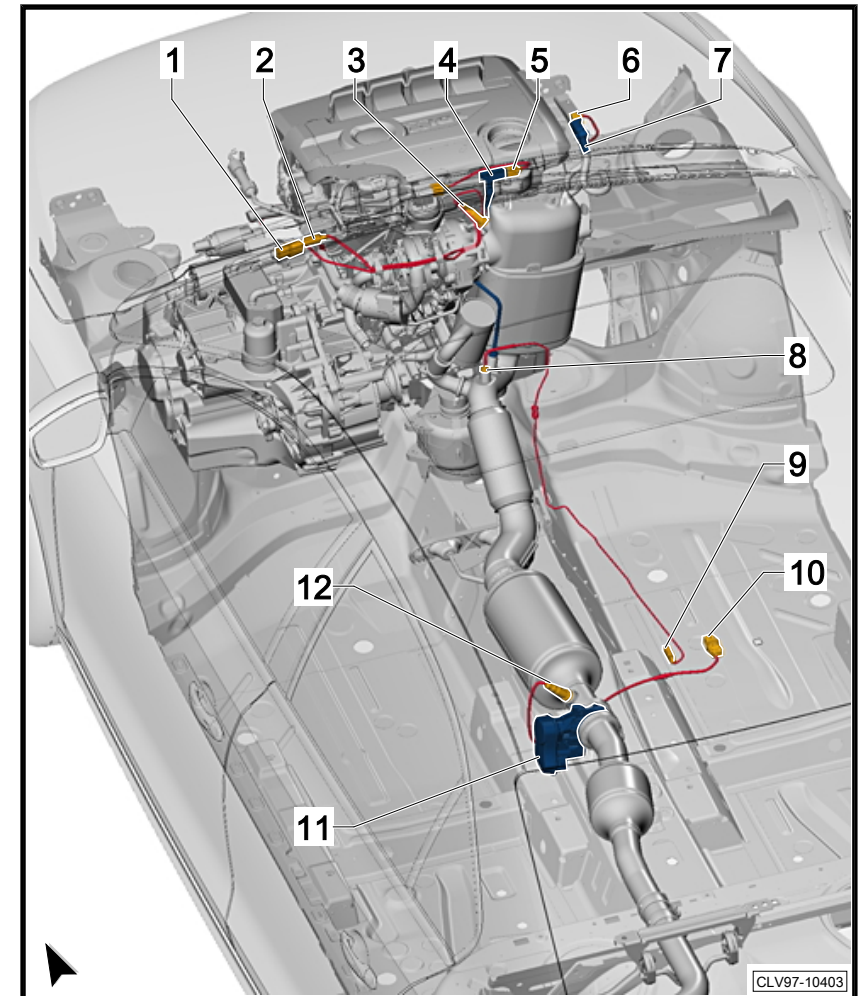


1.3 2.0L TDI, CJAA

- ◆ ⇒ ["1.3.1 2.0L TDI, CJAA, Part I", page 3](#)
- ◆ ⇒ ["1.3.2 2.0L TDI, CJAA, Part II", page 4](#)

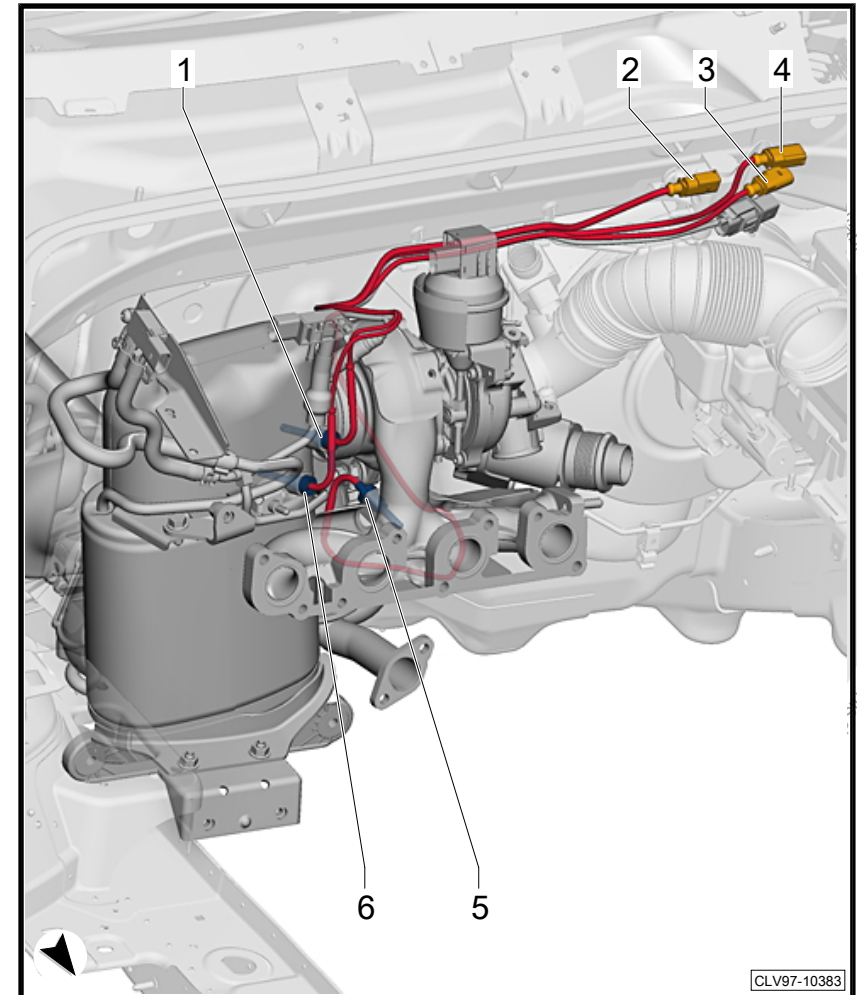
1.3.1 2.0L TDI, CJAA, Part I

- 1 - 6-pin connector -T6W-
- 2 - Double connector -T2eq-
- 3 - Heated oxygen sensor -G39-
- 3 - Oxygen sensor heater -Z19-
- 4 - Exhaust pressure sensor 1 -G450-
- 5 - 4-pin connector -T4ao-
- 6 - 3-pin connector -T3n-
- 7 - Exhaust pressure sensor 2 -G451-
- 7 - Differential pressure sensor -G505-
- 8 - Exhaust gas temperature sensor 4 -G648-
- 9 - Double connector -T2ez-
- 10 - 6-pin connector -T6ao-
- 11 - Exhaust door control unit -J883-
- 12 - Oxygen sensor after three way catalytic converter -G130- connector
- 12 - Heater for oxygen sensor 1 after catalytic converter -Z29- connector



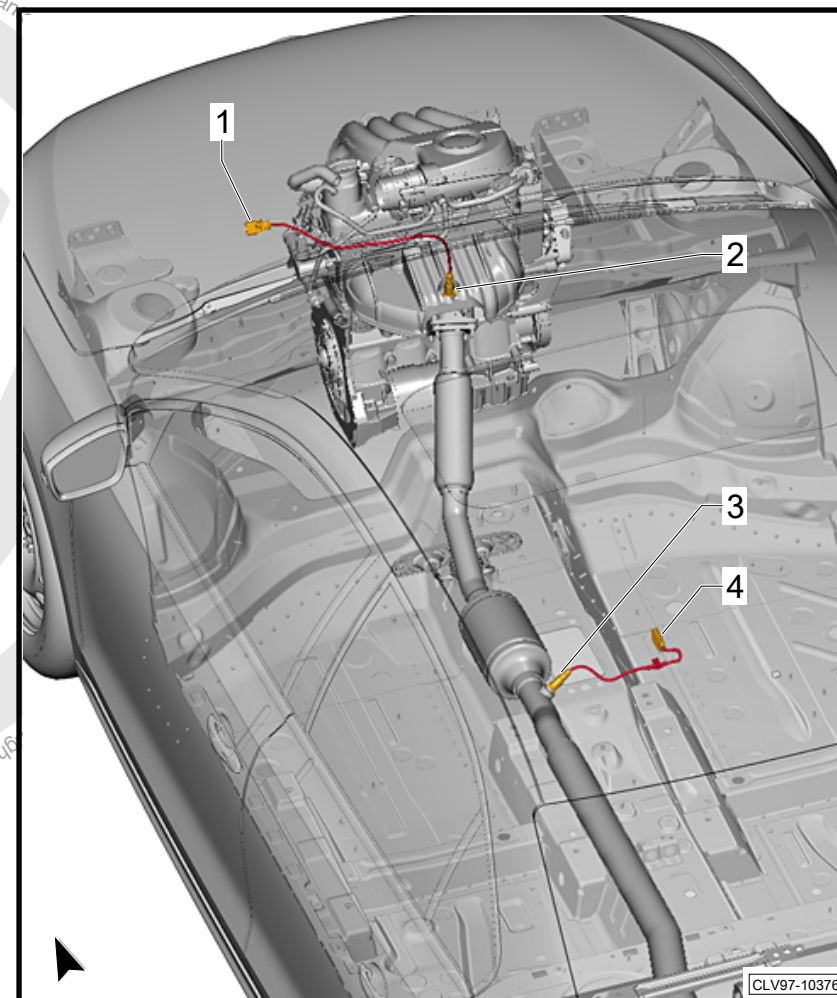
1.3.2 2.0L TDI, CJAA, Part II

- 1 - Exhaust gas temperature sensor 2 -G448-
- 2 - Double connector -T2eq-
- 3 - Double connector -T2fe-
- 4 - Double connector -T2fk-
- 5 - Exhaust gas temperature sensor 1 -G235-
- 6 - Exhaust gas temperature sensor 3 -G495-



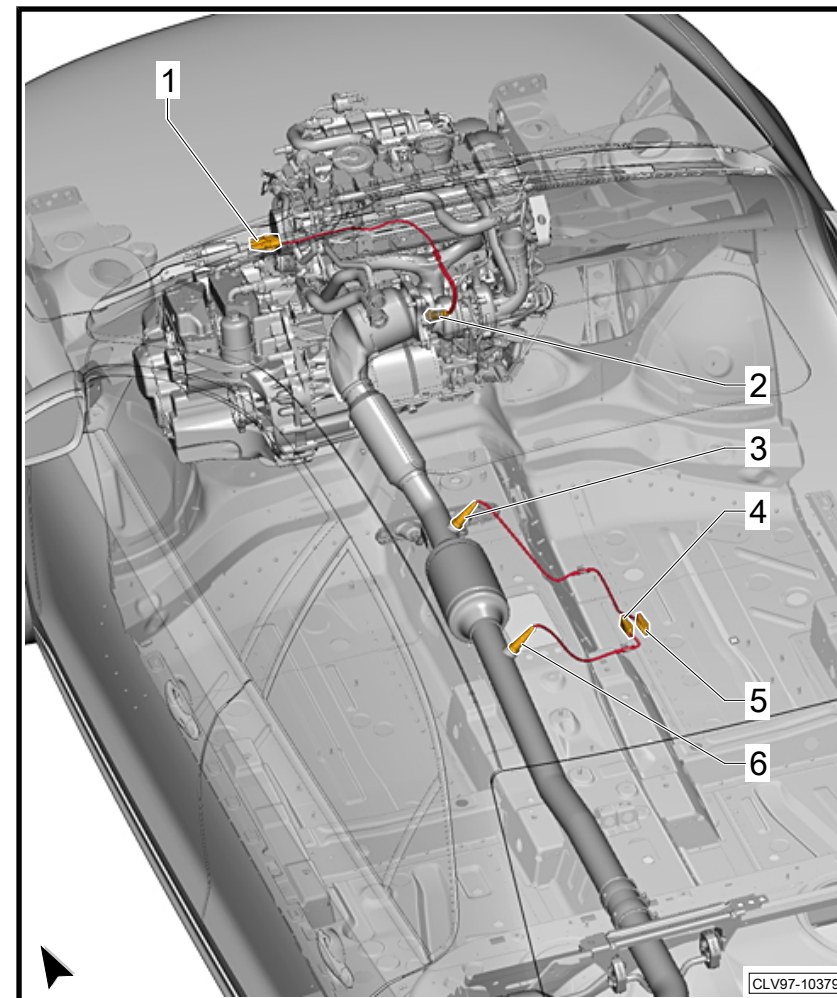
1.4 2.0L MPI, CBPA

- 1 - 6-pin connector -T6w-
- 2 - Heated oxygen sensor -G39-
- 2 - Oxygen sensor heater -Z19-
- 3 - Oxygen sensor after three way catalytic converter -G130-
- 3 - Heater for oxygen sensor 1 after catalytic converter -Z29-
- 4 - 4-pin connector -T4ao-



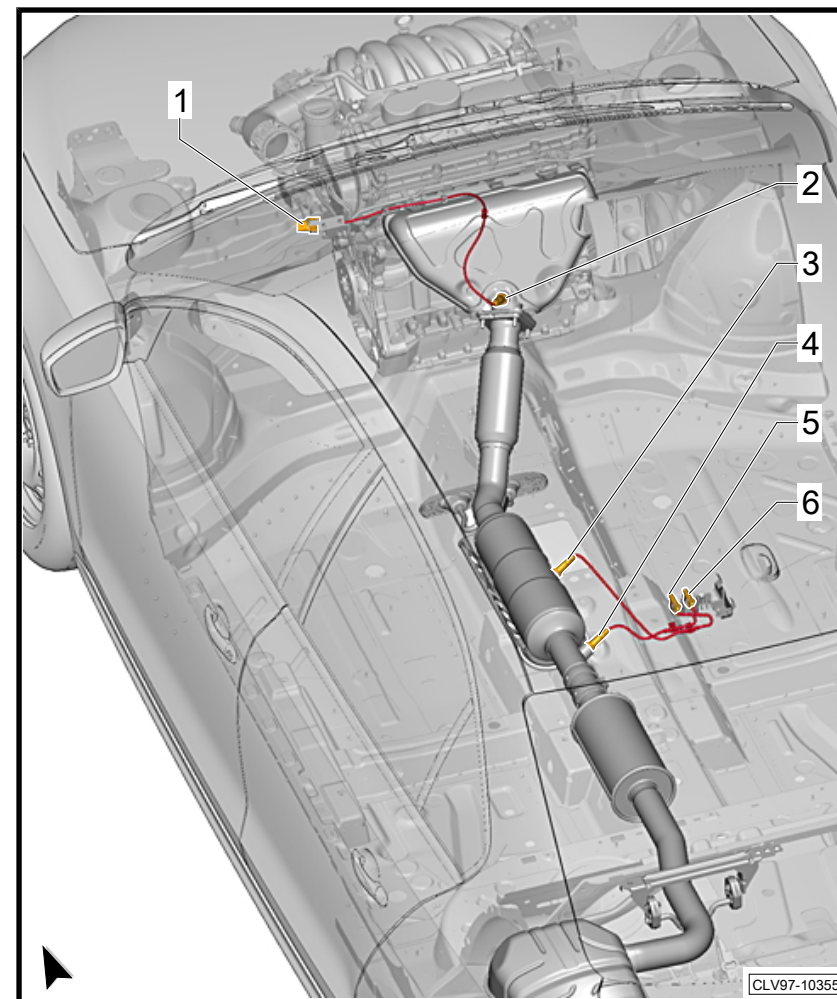
1.5 2.0L TFSI, CCTA/CBFA

- 1 - 6-pin connector -T6w-
- 2 - Heated oxygen sensor -G39-
- 2 - Oxygen sensor heater -Z19-
- 3 - Heated oxygen sensor 2 -G108-
- 3 - Oxygen sensor 2 heater -Z28-
- 4 - 4-pin connector -T4ab-
- 5 - 4-pin connector -T4ao-
- 6 - Oxygen sensor after three way catalytic converter -G130-
- 6 - Heater for oxygen sensor 1 after catalytic converter -Z29-



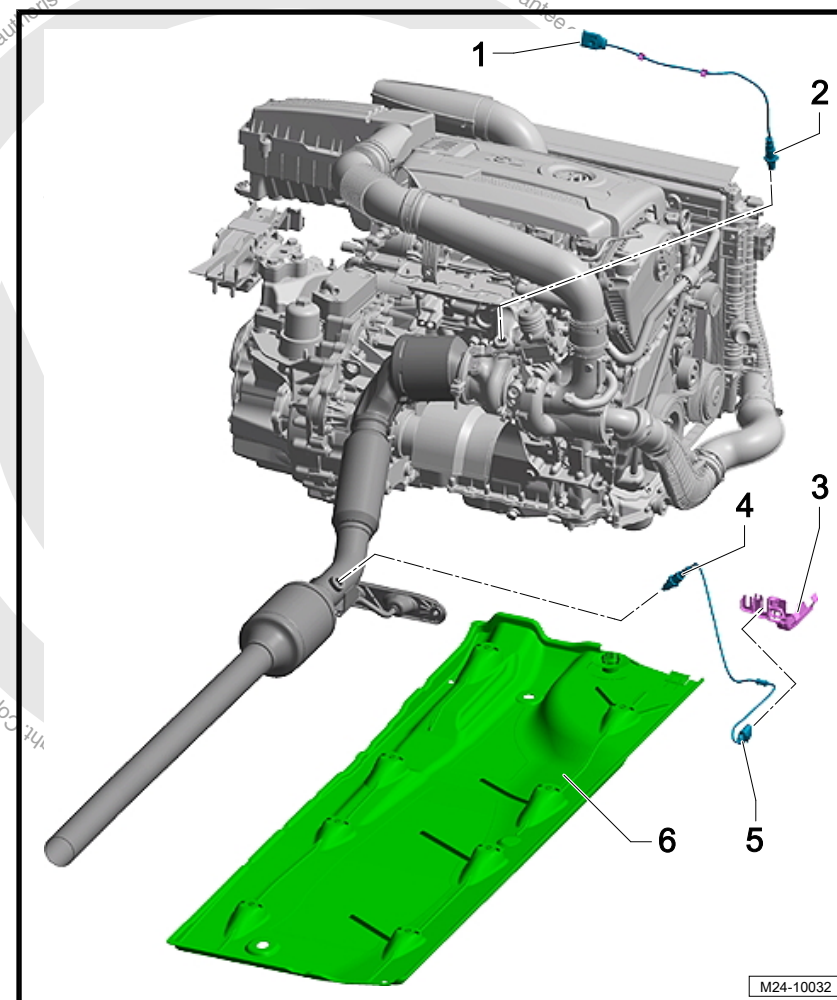
1.6 2.5L SRE, CBTA/CBUA

- 1 - 6-pin connector -T6w-
- 2 - Heated oxygen sensor -G39-
- 2 - Oxygen sensor heater -Z19-
- 3 - Oxygen sensor in bank 1 center three way catalytic converter -G465-
- 3 - Heater for oxygen sensor center catalytic converter -Z59-
- 4 - Oxygen sensor after three way catalytic converter -G130-
- 4 - Heater for oxygen sensor 1 after catalytic converter -Z29-
- 5 - 4-pin connector -T4ao-
- 6 - 4-pin connector -T4ap-



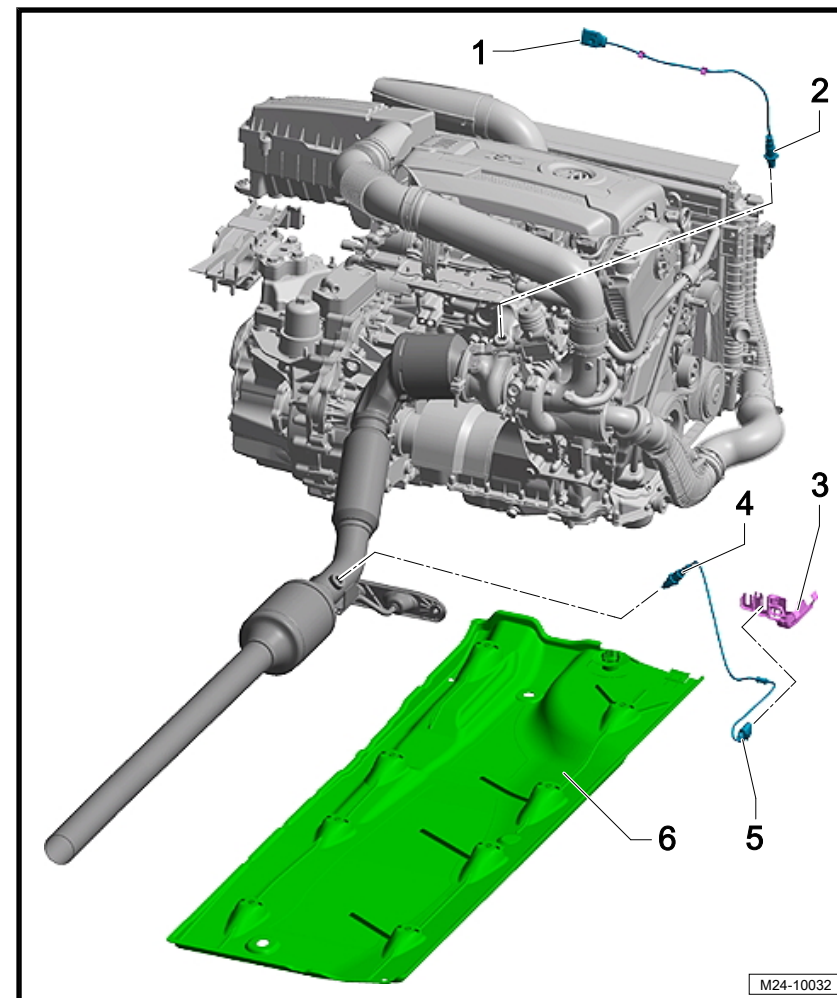
1.7 1.8L TFSI, CPKA/CPRA

- 1 - 6-pin connector -T6w-
- 2 - Oxygen sensor 1 before catalytic converter -GX10-
- 2 - Heated oxygen sensor -G39-
- 2 - Oxygen sensor heater -Z19-
- 3 - 4-pin connector -T4ao-
- 4 - Oxygen sensor 1 after catalytic converter -GX7-
- 4 - Heater for oxygen sensor 1 after catalytic converter -Z29-
- 4 - Oxygen sensor after three way catalytic converter -G130-
- 5 - 4-pin connector -T4ap-



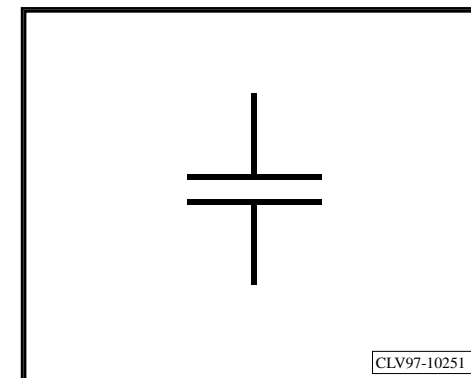
1.8 2.0L TFSI, CPLA/CPPA

- 1 - 6-pin connector -T6w-
- 2 - Oxygen sensor 1 before catalytic converter -GX10-
- 2 - Heated oxygen sensor -G39-
- 2 - Oxygen sensor heater -Z19-
- 3 - 4-pin connector -T4ao-
- 4 - Oxygen sensor 1 after catalytic converter -GX7-
- 4 - Heater for oxygen sensor 1 after catalytic converter -Z29-
- 4 - Oxygen sensor after three way catalytic converter -G130-
- 5 - 4-pin connector -T4ap-



1 Understanding Wiring Diagrams Terminology and Symbols

1.1 Capacitor



Capacitors are a passive electronic component that holds a charge in the form of an electrostatic field. They are often used in combination with transistors in DRAM, acting as storage cells to hold bits. Capacitors typically consist of conducting plates separated by thin layers of dielectric material, such as dry air or mica. The plates on opposite sides of the dielectric material are oppositely charged and the electrical energy of the charged system is stored in the polarized dielectric.

1.2 Connector

Connectors are the part of a cable that plugs into a port or interface to connect one device to another. Most connectors are either male (containing one or more exposed pins) or female (containing holes in which the male connector can be inserted).

Given a relatively fixed voltage in an automotive electrical system (12.6 volts), the current in the circuit is determined by the amount of resistance in the load and in the conductors and connections in the circuit.

Terminals, connectors and splices are used throughout the electrical wiring harness to aid in vehicle assembly and service. Any connection in a circuit creates a place where problems can occur.

Typical connector problems include:

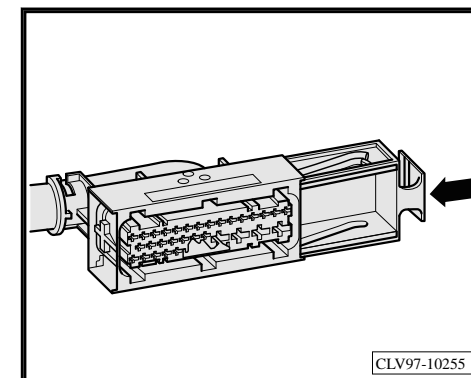
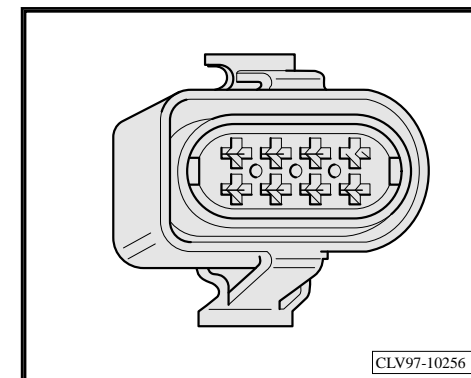
- ◆ Disconnected connector
- ◆ Terminal backed out
- ◆ Terminal corrosion
- ◆ Terminal spread too wide

◆ Improperly made splice

Connector pin numbers are always shown from the mating side of the connector, not the harness side of the connector. If you are back-probing the connector for a voltage check, remember the pin numbering becomes the mirror of what is pictured in the diagram.

Push-on/multi-pin connectors use the "T" designation, and are identified in the legend. For example, T8a/5 designates an 8-pin connector, with the specified wire located in terminal 5 of the connector housing.

Most pin assignments are labeled on the plastic hardshell connector housing and/or the corresponding component. On larger connectors, pin assignments are labeled at either end of a row. For example, the Engine Control Module (ECM) plug often has 2 or 3 rows of 12 or more terminals. Each row will be marked on each end to facilitate diagnosis.



1.3 Component Code Prefixes

◆ A - Battery

- ◆ B - Starter
- ◆ C - Alternator/generator
- ◆ D - Ignition/starter switch
- ◆ E - Switches — these are usually more complex switches: A/C control head, sunroof regulator
- ◆ F - Switches — door, hood, brake, clutch, trunk, multifunction, etc.
- ◆ G - Gauges and sensors
- ◆ H - Horn
- ◆ J - Control modules, relays, electronic relays
- ◆ K - Indicator/warning lights
- ◆ L - Lights
- ◆ M - Lights
- ◆ N - Solenoids/inductors/ignition — fuel injectors, purge, ignition coil, ignition module, etc.
- ◆ P - Spark plug connector
- ◆ Q - Spark plugs
- ◆ R - Radio, CD, telephone, navigation
- ◆ S - Fuse, circuit breaker, protection device
- ◆ T - Wire connector V Motor — window motors, vacuum pumps, etc.
- ◆ W - Lights — interior, trunk
- ◆ Z - Heating elements — O2 sensor heater, heated seats, heated mirrors, etc

1.4 DIN Standard 72 552

German institute for standards that establishes guidelines for manufacturing and nomenclature.

This standard applies to the terminal designations for circuits. The purpose of the terminal designation system is to enable accurate connection identification from conductors (wires) to various components when diagnosis and repair is necessary. DIN standards for terminal designations are shown below:

- ◆ 1 - Ignition coil, ignition distributor — low voltage
- ◆ 1a - To contact breaker I (ignition distributor with two separate circuits)

- ◆ 1b - To contact breaker II (ignition distributor with two separate circuits)
- ◆ 4 - Ignition coil, ignition distributor — high voltage
- ◆ 4a - From ignition coil I (ignition distributor with two separate circuits)
- ◆ 4b - From ignition coil II (ignition distributor with two separate circuits)
- ◆ 15 - Switched (+) downstream of battery (output of ignition/driving switch)
- ◆ 15a - Output at ballast resistor to ignition coil and starter
- ◆ 17 - Glow plug and starter switch — start
- ◆ 19 - Glow plug and starter switch — preheat
- ◆ 30 - Input from battery (+) term., direct 12/24 V seriesparallel battery switch
- ◆ 30a - Input from (+) terminal of battery II
- ◆ 31 - Battery negative terminal, or ground, direct
- ◆ 31a - Return line to battery II, negative (12/24 V seriesparallel battery switch)
- ◆ 31b - Return line to battery negative terminal, or ground via switch or relay (switched negative)
- ◆ 31c - Return line to battery I, negative (12/24 V seriesparallel battery switch)
- ◆ 50 - Starter control (direct)
- ◆

Electric Motors

- ◆ 32 - Return line
- ◆ 33 - Main terminal connection
- ◆ 33a - Self-parking switch-off
- ◆ 33b - Shunt field
- ◆ 33f - For second lower-speed range
- ◆ 33g - For third lower-speed range
- ◆ 33h - For fourth lower-speed range
- ◆ 33L - Counter-clockwise rotation



- ◆ 33R - Clockwise rotation

Starters

- ◆ 45 - Separate starter relay, output; starter input (main current) Two-starter parallel operation C — starting relay for engagement current
- ◆ 45a - Output, starter I, input, starters I and II
- ◆ 45b - Output, starter II
- ◆ 48 - Terminal ON starter and ON start-repeating relay for monitoring starting

Turn-Signal Flashers (Pulse Generators)

- ◆ 49 - Input
- ◆ 49a - Output
- ◆ 49b - Output, second circuit
- ◆ 49c - Output, third circuit

Starter Control

- ◆ 50 - Starter control (direct)
- ◆ 50a - Series-parallel battery switch — output for starter control
- ◆ 50b - With parallel operation of two starters with sequential control Starting relay for sequential control of the engagement current during parallel operation of two starters
- ◆ 50c - Input at starting relay for starter I
- ◆ 50d - Input at starting relay for starter II
- ◆ 50e - Start-locking relay input
- ◆ 50f - Start-locking relay output
- ◆ 50g - Start-repeating relay input

- ◆ 50h - Start-repeating relay output

Wiper Motors

- ◆ 53 - Wiper motor, input (+)
- ◆ 53a - Wiper (+), self-parking switch-off
- ◆ 53b - Wiper (shunt winding)
- ◆ 53c - Electric windshield-washer pump
- ◆ 53e - Wiper (brake winding)
- ◆ 53l - Wiper motor with permanent magnet and third brush (for higher speed)

Lighting

- ◆ 55 - Fog lamp
- ◆ 56 - Headlamp
- ◆ 56a - High beam, high-beam indicator lamp
- ◆ 56b - Low beam
- ◆ 56d - Headlamp-flasher contact
- ◆ 57a - Parking lamp
- ◆ 57L - Parking lamp, left
- ◆ 57R - Parking lamp, right
- ◆ 58 - Side-marker, tail, license plate, and instrument panel lamps
- ◆ 58b - Dimmer
- ◆ 58d - Dimmer
- ◆ 58L - License-plate lamp, left
- ◆ 58R - License-plate lamp, right



Alternators and Voltage Regulators

- ◆ 61 - Alternator charge-indicator lamp
- ◆ B+ - Battery positive
- ◆ B- - Battery negative
- ◆ D+ - Dynamo positive
- ◆ D- - Dynamo negative
- ◆ DF - Dynamo field DF1 Dynamo field 1
- ◆ DF2 - Dynamo field 2
- ◆ U,V,W - Alternator terminals
- ◆ 75 - Radio, cigarette lighter
- ◆ 76 - Speakers

Switches**Break Contact (NC) and Changeover Switches**

- ◆ 81 - Input
- ◆ 81a - Output 1, NC side
- ◆ 81b - Output 2, NC side

Multiple-Position Switches

- ◆ 83 - Input
- ◆ 83a - Output, position 1
- ◆ 83b - Output, position 2
- ◆ 83L - Output, left-hand position
- ◆ 83R - Output, right-hand position



Relays/Current Relays

- ◆ 84 - Input, actuator and relay contact
- ◆ 84a - Output, actuator
- ◆ 84b - Output, relay contact

Alternators and Voltage Regulators

- ◆ 85 - Output, actuator (end of winding to ground or negative)
- ◆ 86 - Input, actuator (start of winding)
- ◆ 86a - Start of winding or 1st winding
- ◆ 86b - Winding tap or 2nd winding

Relay Contact for Break (NC) and Changeover Contacts

- ◆ 87 - Input
- ◆ 87a - Output 1 (NC side)
- ◆ 87b - Output 2 87c Output 3
- ◆ 87z - Input 1
- ◆ 87y - Input 2
- ◆ 87x - Input 3

Relay Contact for Make (NO) Contact and Changeover Contacts

- ◆ 88 - Input
- ◆ 88a - Output 1
- ◆ 88b - Output 2
- ◆ 88c - Output 3
- ◆ 88z - Input 1
- ◆ 88y - Input 2

◆ 88x - Input 3

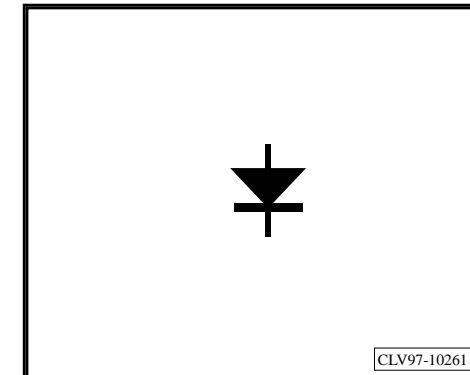
Directional Signals (Turn Signal Flashers)

- ◆ C - Indicator lamp 1
- ◆ C2 - Indicator lamp 2
- ◆ C0 - Main terminal connection for separate indicator circuits actuated by the turn signal switch
- ◆ C3 - Indicator lamp 3 (e.g., when towing two trailers)
- ◆ L - Turn-signal lamps, left
- ◆ R - Turn-signal lamps, right

1.5 Diode

Normal Diode

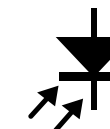
Zener Diode



Light Sensitive Diode



CLV97-10262



CLV97-10263

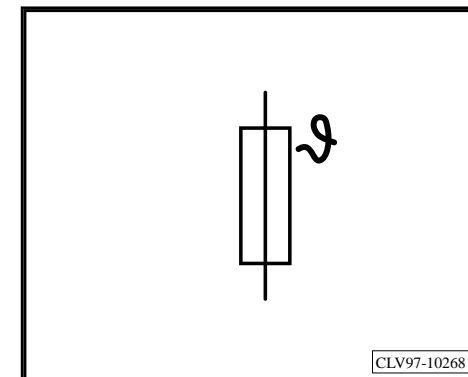
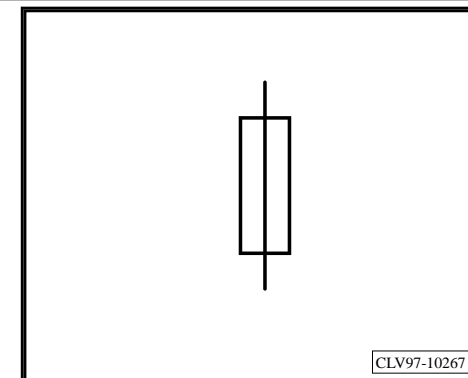
Diodes are an electric component that conducts electric current in only one direction, functioning as a one-way valve. Diodes typically are made from semiconductor materials such as silicon, germanium or selenium and are used as voltage regulators, signal rectifiers, oscillators and signal modulators/demodulators.

The arrow of the circuit symbol shows the direction in which the current can flow. Diodes are the electrical version of a valve and early diodes were actually called valves.

1.6 Fuse

Normal Fuse

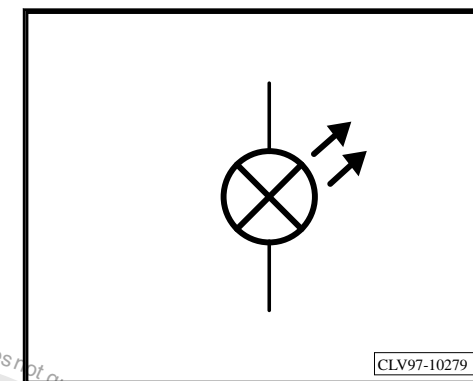
Thermal Fuse



A component installed in series with a circuit, designed to disrupt the circuit when carrying more than its specified amperage. Fuses are placed in circuits to protect other components in the circuit from damage.

Fuses are used to prevent excessive current from damaging other components in a circuit. There are various types including standard fuses, thermal fuses (circuit breakers) and strip fuses. Fuses use the component designation S .

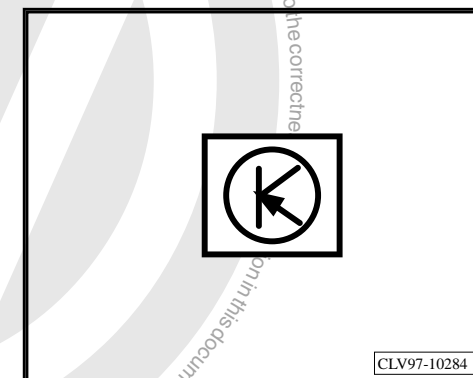
1.7 LED (Light-emitting Diode)



An LED is a light-emitting diode semiconductor device used to transmit light into a fiber in response to an electrical signal. It typically has a broad spectral width.

The diode is created such that light emitted at a p-n junction is proportional to the bias current; color output depends on the material used.

1.8 Module



A transistorized, rather than analog, switching circuit that relies on one or inputs to control the switching of a logic circuit.

Control Modules can make the task of reading and interpreting wiring diagrams more difficult because multiple signals enter and/or exit, but the internal schematic is not always shown.

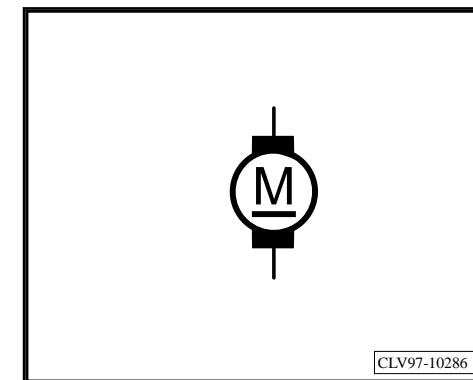
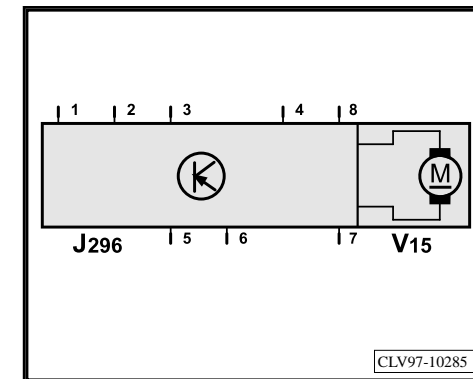
Some control modules may be integrated with other components. Take, for example, the window motor with control module. Both the motor and the control module are combined to make a single component.

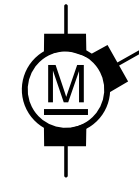
The symbol below represents the combined components.

1.9 Motor

Single Speed Motor

Two Speed Motor





CLV97-10287

A motor is driven by electromotive force.

A device that converts electrical energy into rotational motion. On late model vehicles, the speed of most motors is controlled using PWM circuits. If a motor has low output, checking the motor amperage can determine if the problem is electrical or mechanical. Increasing the electrical resistance in a motor circuit will decrease the amperage in the circuit, while increasing the mechanical load on the motor shaft will increase the amperage in the circuit.

The direction of motor rotation can be changed by reversing the polarity of the signals to the motor.

1.10 Potentiometer or Rheostat



CLV97-10295

A resistor that varies its resistance based on a mechanical input.

A three wire variable resistor that is used as a voltage divider. A reference voltage (usually 5 volts or battery voltage) and ground are placed across a resistance element. A wiper is moved across the element to produce an infinitely variable voltage signal from zero up to the reference voltage, which is measured on the third wire. In automotive applications, potentiometers are commonly used as position sensors for motors or measuring throttle plate position.

A rheostat, or potentiometer, varies its resistance based on mechanical input. An example of this is the Throttle Position Sensor (TPS) on a Motronic equipped car.

1.11 Relay

Component that uses a low current to switch a high current circuit.

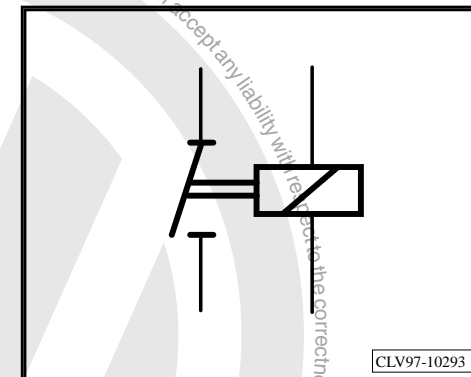
It contains a winding that is used to magnetically move a set of points (switch), similar to the operation of a solenoid. When an on/off signal is supplied to the winding, a magnetic field is generated which changes the position of the switch. Depending on the design of the relay, the switch may be normally open or normally closed in its rest state. The most common type of relay is a four wire relay, which uses two wires for the control circuit and two wires for the switched circuit. Relays that use more than four wires are usually variations of this design, usually containing multiple control and switched circuits. If a relay contains logic circuits, it is generally considered a control unit although it may still be called a relay.

Like solenoids, relays also produce an inductive kick. Volkswagen relays have a built in suppression circuit consisting of a resistor placed parallel to the winding.

Although there are numerous types of relays used in VW and Audi vehicles, two major distinctions might be made, conventional mechanical relays and solid state relays.

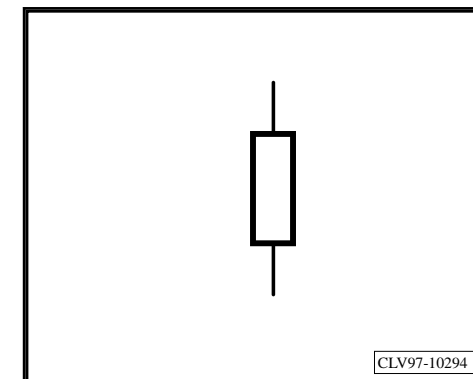
Solid state relays are actually transistors– miniaturized electronic components that have a purpose similar to mechanical relays. Transistors, like relays, allow a circuit with low current to control a circuit with high current.

- ◆ Mechanical relays are always shown with the coil de-energized.
- ◆ Solid state relays may be part of a Relay Box/Junction Block. If they are a transistor and they fail, the entire relay box/Junction Block must be replaced.



1.12 Resistor

Normal Resistor



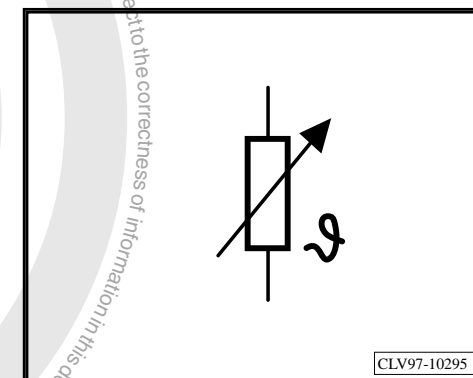
A commonly used symbol is the resistor, used to create a voltage drop in a circuit.

A component that creates a voltage drop in a circuit. Resistors can be used for measurement of current flow, as well as to drop the applied voltage for certain consumers.

Resistors are an electronic component that resists, limits or regulates the flow of electrical current in an electronic circuit. Since the device has resistance it is used in a circuit for protection and current control.

A standard resistor has a fixed resistance.

Temperature Dependent Resistor



A temperature dependent resistor or thermistor is a two wire sensor that utilizes a resistor whose resistance varies with temperature. The thermistors used in most automotive applications have a Negative Temperature Coefficient (NTC), where the resistance of the thermistor decreases as the temperature increases. In a Positive Temperature Coefficient (PTC) thermistor, the resistance of the thermistor increases as the temperature increases. NTC thermistors are commonly used as

temperature sensors. The temperature value is not obtained by reading the sensor resistance directly, but instead by placing a reference voltage (usually 5 volts) and ground across the sensor and then reading the resulting voltage drop.

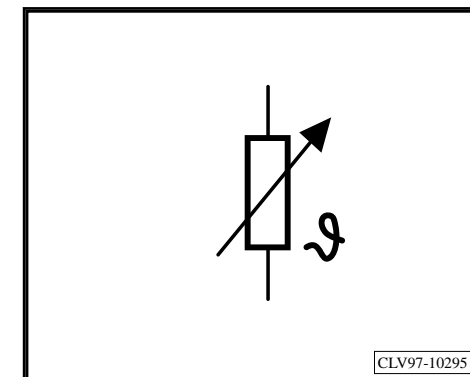
A temperature dependent resistor varies its resistance based on temperature. This type of resistor is used as the Engine Coolant Temperature (ECT) sensor on an engine management system, or the Interior Temperature sensor on models with climate control

When a resistor is used as a sensor, it generally carries a component designator "G."

1.13 Sensors

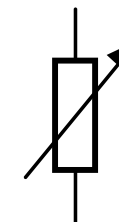
1.13.1 Analog Sensors

Thermistor



A two wire sensor that utilizes a resistor whose resistance varies with temperature. The thermistors used in most automotive applications have a Negative Temperature Coefficient (NTC), where the resistance of the thermistor decreases as the temperature increases. In a Positive Temperature Coefficient (PTC) thermistor, the resistance of the thermistor increases as the temperature increases. NTC thermistors are commonly used as temperature sensors. The temperature value is not obtained by reading the sensor resistance directly, but instead by placing a reference voltage (usually 5 volts) and ground across the sensor and then reading the resulting voltage drop.

Potentiometer



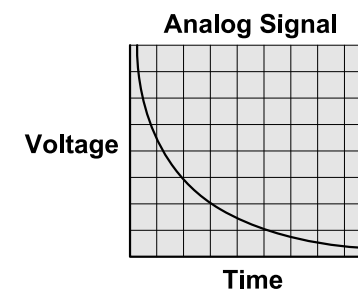
CLV97-10289

A three wire variable resistor that is used as a voltage divider. A reference voltage (usually 5 volts or battery voltage) and ground are placed across a resistance element. A wiper is moved across the element to produce an infinitely variable voltage signal from zero up to the reference voltage, which is measured on the third wire. In automotive applications, potentiometers are commonly used as position sensors for motors or measuring throttle plate position.

Inductive Sensor: A two wire sensor that measures the rotation of a shaft. Unlike other sensors, this sensor does not have an external power supply. Instead, it contains a permanent magnet that creates a magnetic field which collapses and expands when a sensor wheel is rotated through it, generating an AC sine wave signal. The frequency of the signal varies with changes in the RPM of the sensor wheel. Many crankshaft position (RPM) sensors and older ABS wheel speed sensors are inductive sensors.

Knock Sensor: A two wire sensor that is used to measure spark knock in an engine. This sensor uses a crystal material that generates an AC voltage when mechanical stress is applied to it (piezoelectric effect) when spark knock occurs. During installation, a knock sensor must be properly torqued to read spark knock correctly.

Analog Signal



CLV97-10245

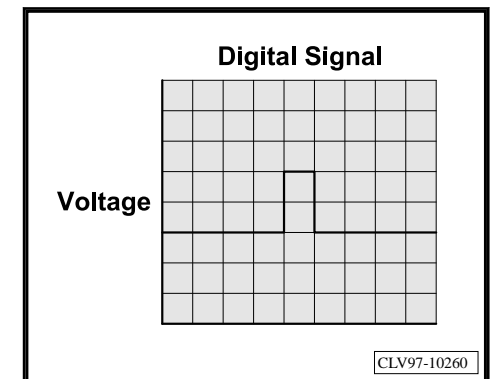
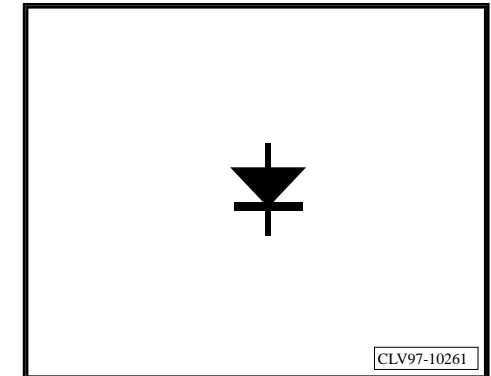
An electrical signal whose amplitude can be measured at an infinite number of positions along the waveform.

1.13.2 Digital Sensors

Hall Sensors and Switches

A two or three wire electronic sensor that produces a variable frequency square wave signal. Power and ground are supplied to a Hall Effect Transistor which is located in a magnetic field generated by a permanent magnet. As the magnet field is altered by moving the magnet in relation to the transistor or by moving a shutter wheel through the magnetic field, the reference voltage is alternately pulled high or low resulting in a square wave signal. Hall Sensors are often used to measure the position of rotating components such as camshaft position sensors.

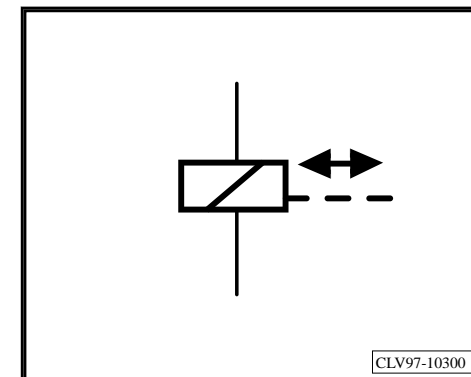
Digital Signal



An electrical signal with an instantaneous change in amplitude (called a pulse) from low to high and high to low. Since the change in state is instantaneous, the amplitude can only be measured in two positions, high or low.

The pulse shown is a positive pulse, because the normal state of the waveform is low and the pulse goes high. However, with a negative pulse, the normal state of the waveform is high and the pulse goes low.

1.14 Solenoid



Used to actuate other components, a solenoid consists of a coil of wire wrapped around an iron core. When a current is passed through a wire, a magnetic field is induced. This magnetic "pull" is used to operate other components.

Solenoids are used to actuate many different components, including fuel injectors and relays.

A solenoid is a coil of wire wrapped around an iron core. When current is passed through the wire, a magnetic field is induced. This pulls a set of contacts in the relay closed, either opening or closing the circuit.

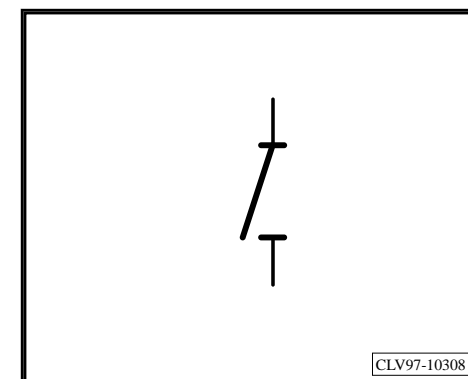
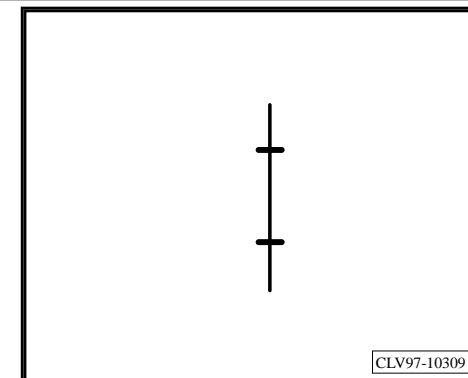
1.15 Switch

Normally Closed Switch

Normally Open Switch

The switch is another component used to control current flow. The basic symbols for an open and closed switch are shown in illustration SSP 8730/22. An example of this simple two-position switch would be a glove compartment light switch. A simple switch uses the component designation "F." There are many types of designs, including mechanically actuated, pressure actuated, temperature actuated and momentary.

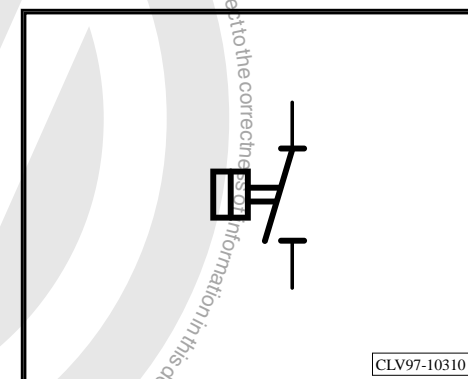
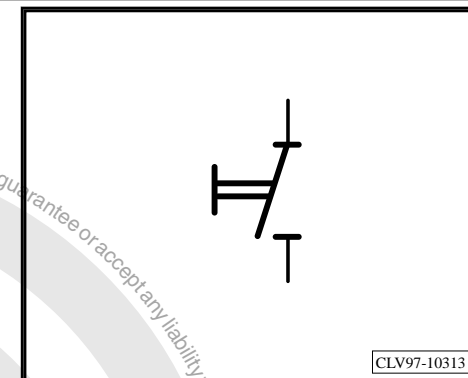
Manually Operated Switch

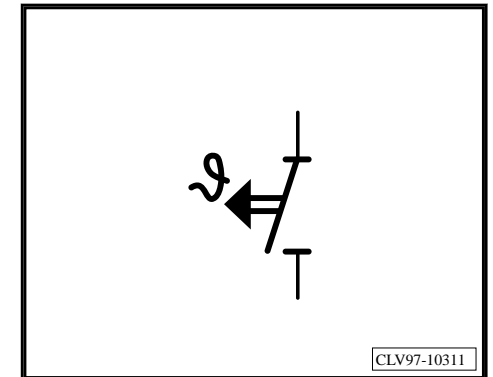


Pressure Operated Switch

Oil pressure switch (pressure actuated)

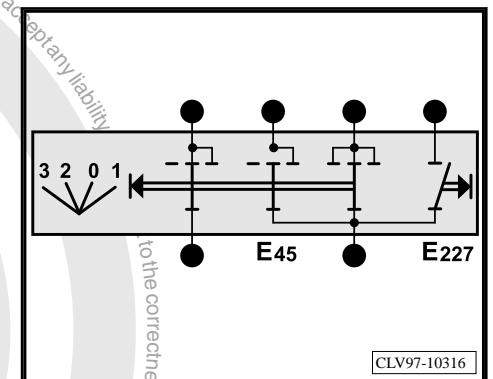
Thermally Operated Switch





Cooling fan thermo-switch (temperature actuated)

Complex Circuit with Multiple Switches



More complex circuits may require a switch with multiple sets of contacts. An example of this would be the cruise control switch.

As you can see in illustration above, there are multiple sets of contacts within the assembly. Depending on the position of the switch, various sets of contacts are open or closed. Careful study of the symbols allows the technician to follow the circuit through the switch under any condition.

A complex switch uses the component designation "E"

1.16 Solenoid

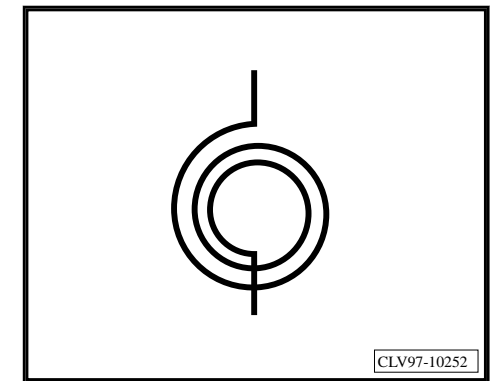
A two wire electromechanical device used to control the flow of liquids, gasses or the operation of mechanical components. To operate the solenoid, an on/off, PWM or variable frequency signal (commonly a switched ground) is supplied to a winding

inside the solenoid, which in turn generates a magnetic field that moves a plunger. Depending on the design of the solenoid, the plunger may be normally open or normally closed in its rest state. A fuel injector is an example of a solenoid.

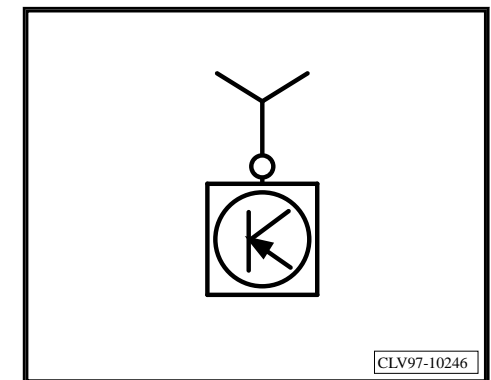
When the signal to the solenoid is switched off and the magnetic field around the winding collapses, the winding produces a phenomenon called "inductive kick". Inductive kick is a high voltage pulse that is injected back into the control circuit and is similar in principal to the pulse produced by an ignition coil, although the voltage is much lower (generally around 30 to 60 volts).

1.17 Symbols

Airbag Spiral Spring

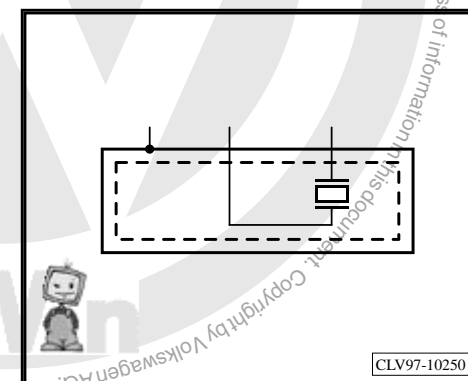
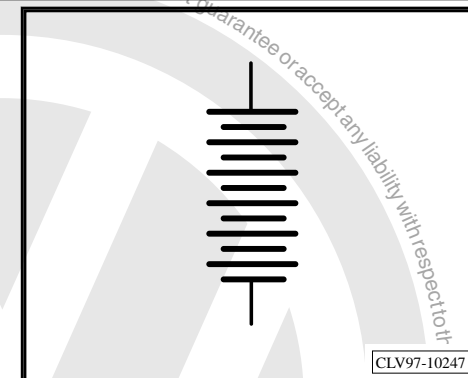


Antenna With Amplifier

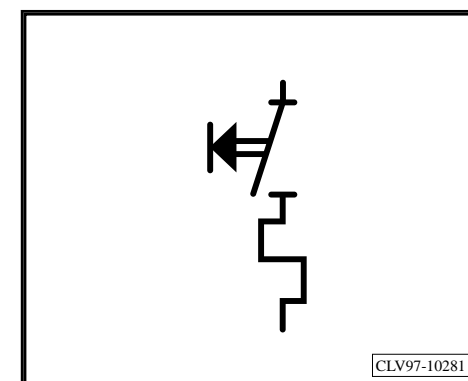


Battery

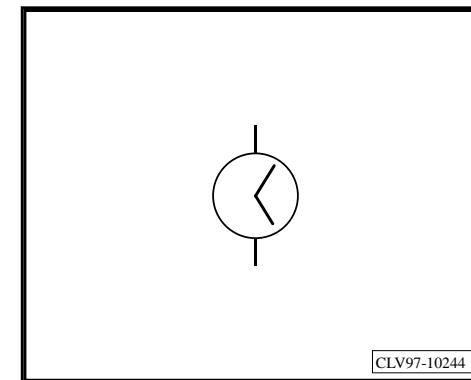
Camshaft Sensor



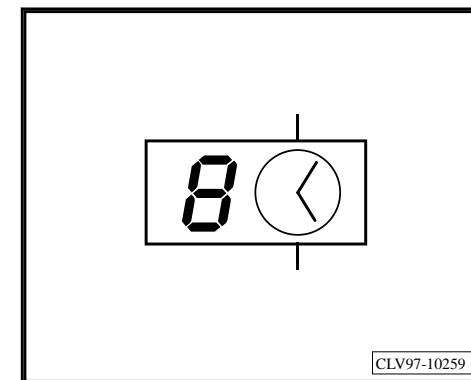
Cigarette Lighter



Clock, Analog



Clock, Digital

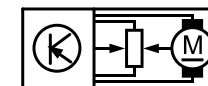


Control Motor

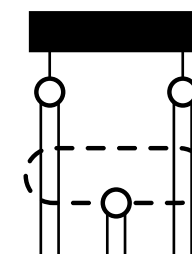


Crankshaft Sensor

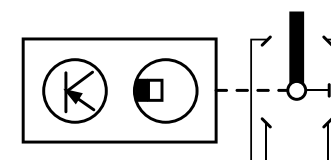
Distributor



CLV97-10257



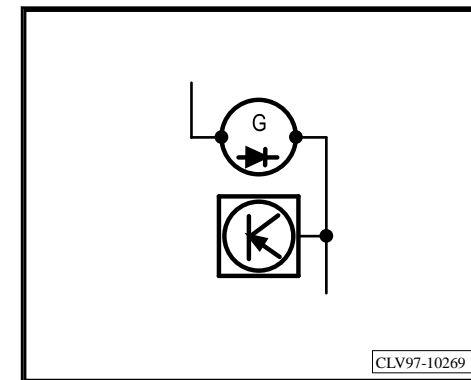
CLV97-10258



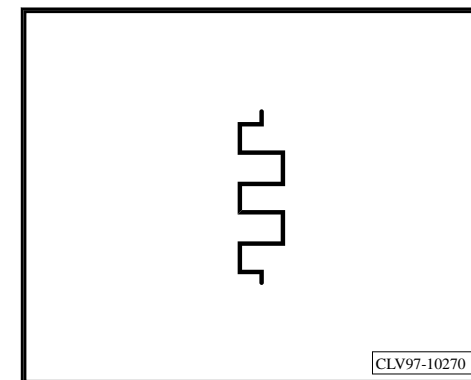
CLV97-10265



Generator



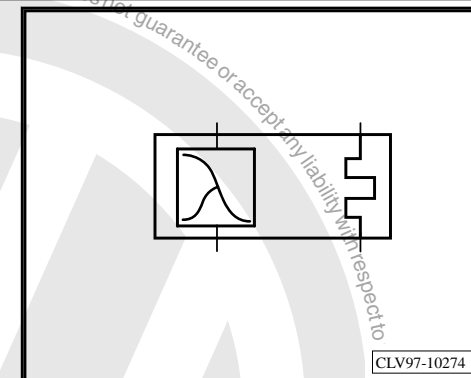
Glow Plug



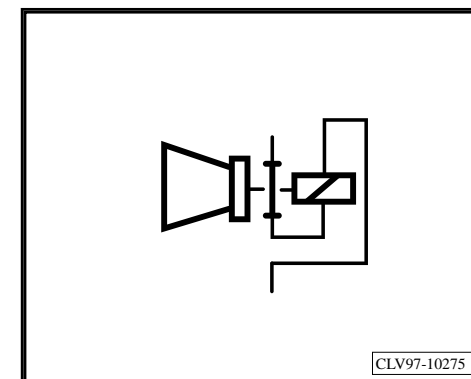
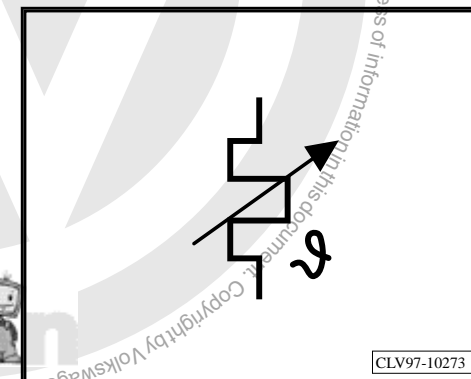
Heated O2 Sensor



Heater Element



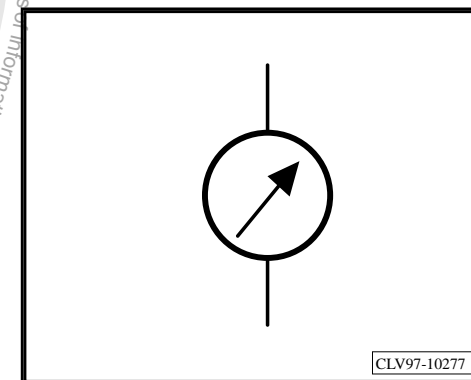
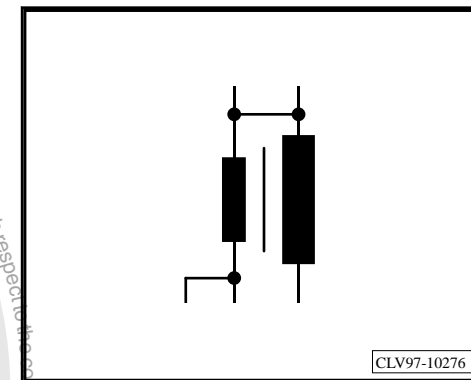
Horn



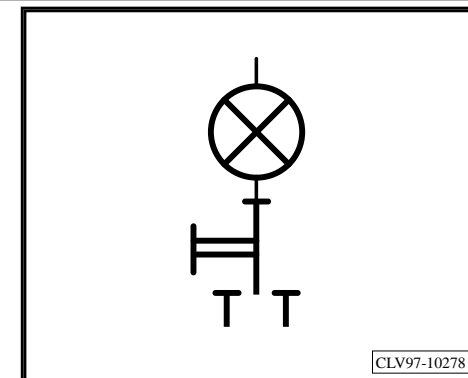
Ignition Coil

Instrument Gauge

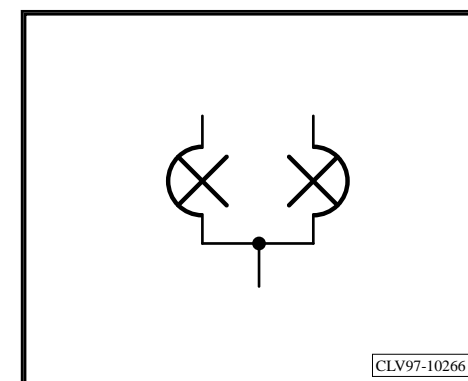
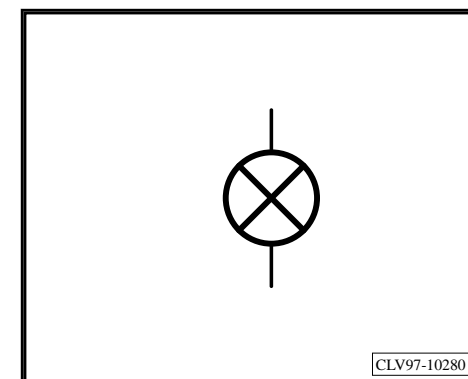
Interior Light



Light Bulb, Single Filament



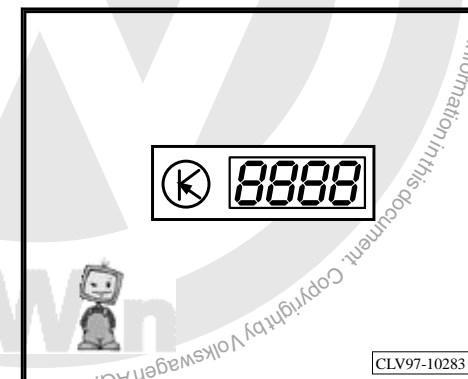
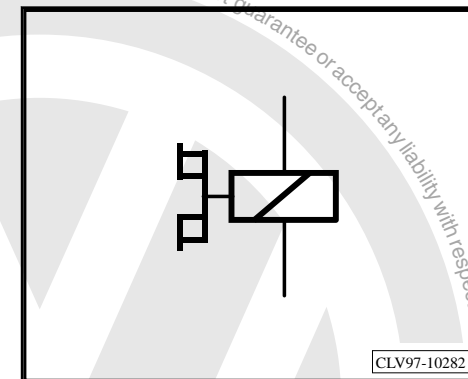
Light Bulb, Dual Filament



Magnetic Clutch

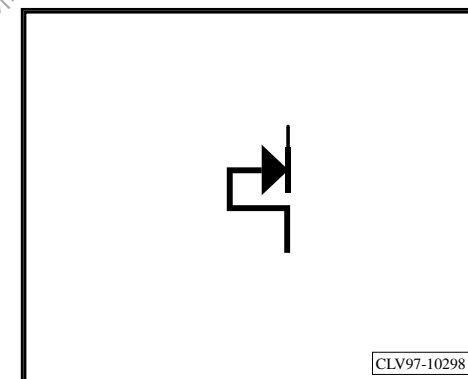
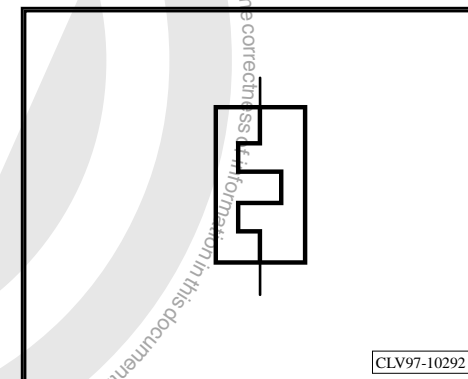
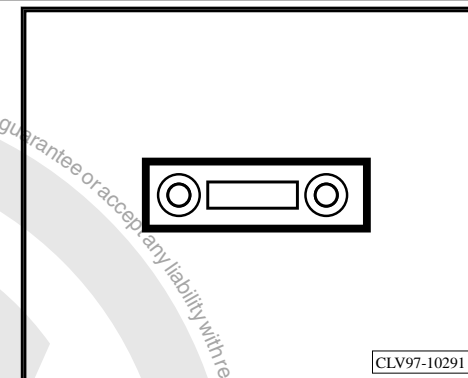
Malfunction Indicator

Radio

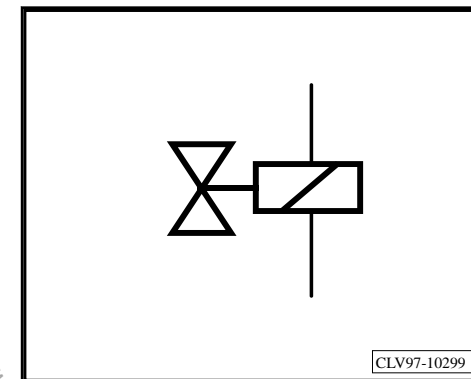


Rear Window Defogger

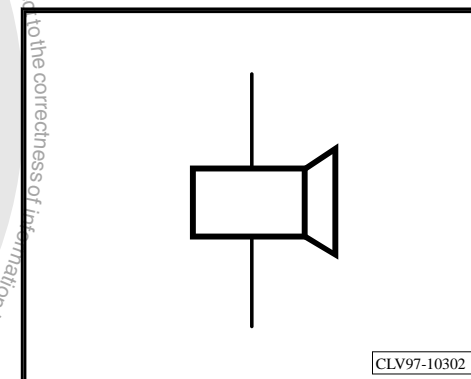
Slip Contact



Solenoid Valve



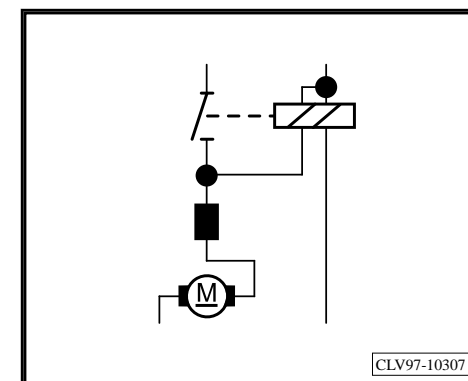
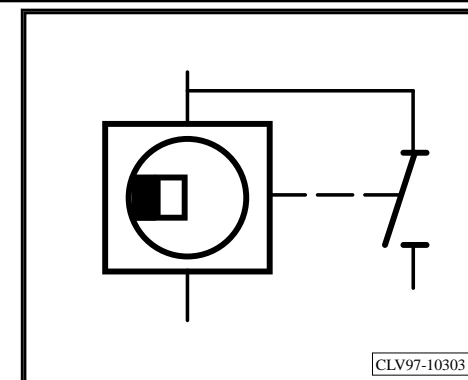
Speaker



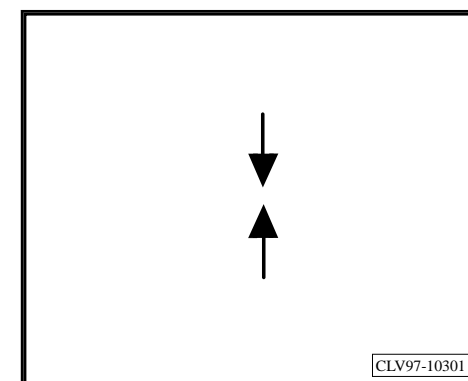
Speed Sensor



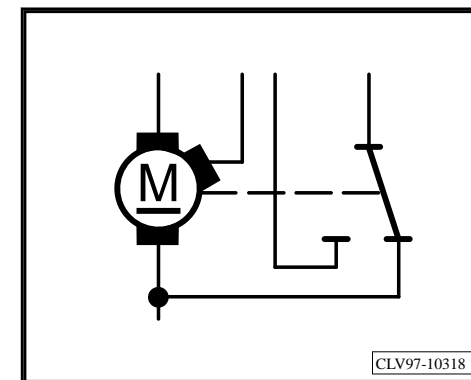
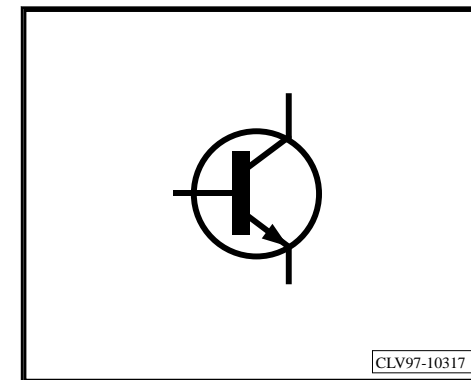
Starter



Spark Plug



Transistor

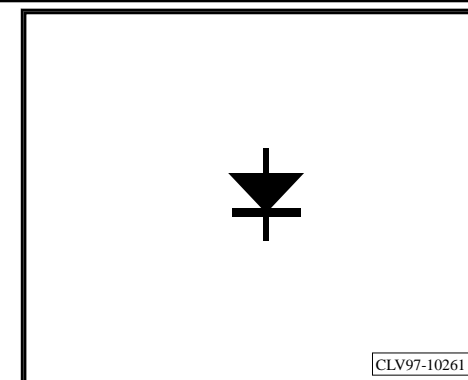


Wiper Motor

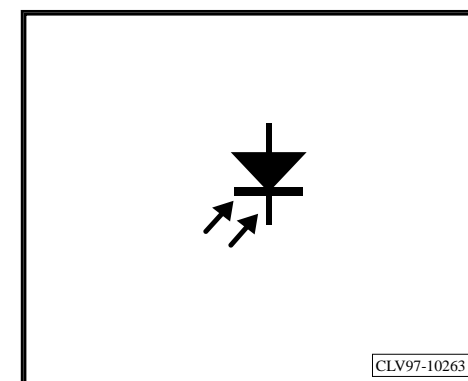
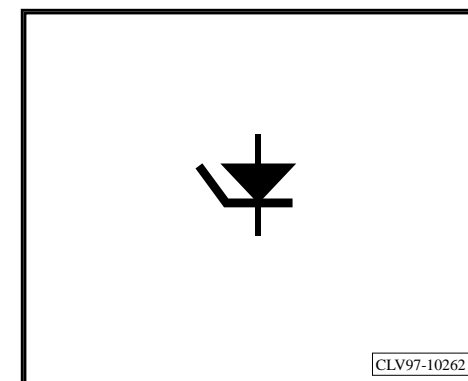
1.17.1 Diodes

Diode

Zener Diode



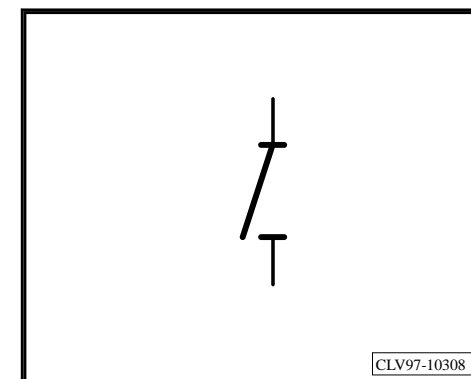
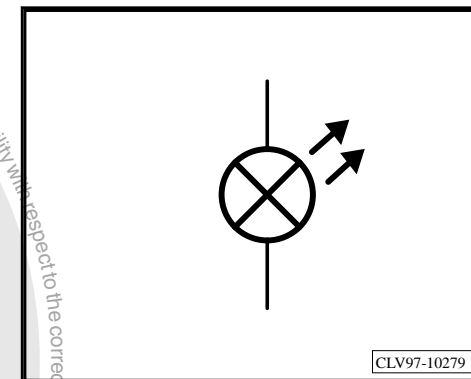
Light Sensitive Diode



LED (Light Emitting Diode)

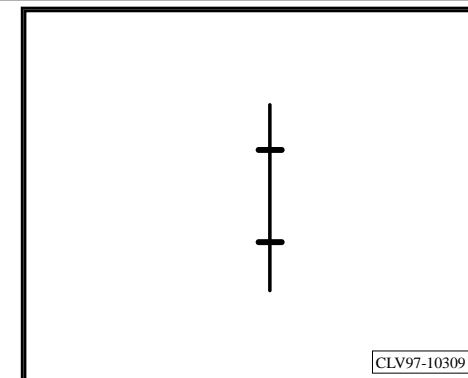
1.17.2 Switches

Normally Open Switch

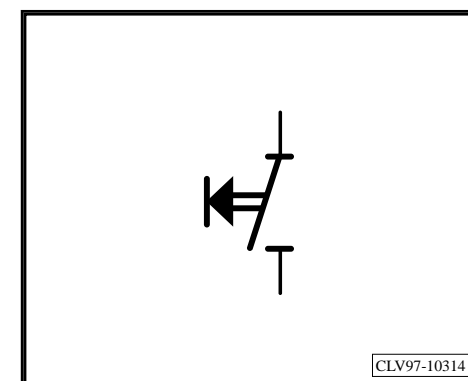
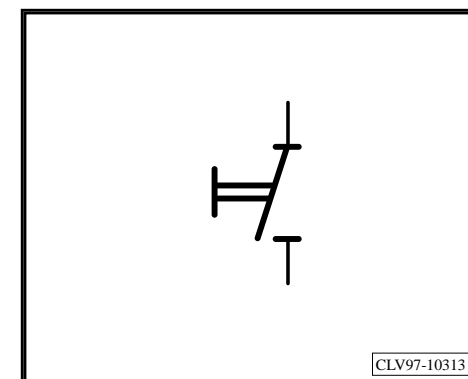


Normally Closed Switch

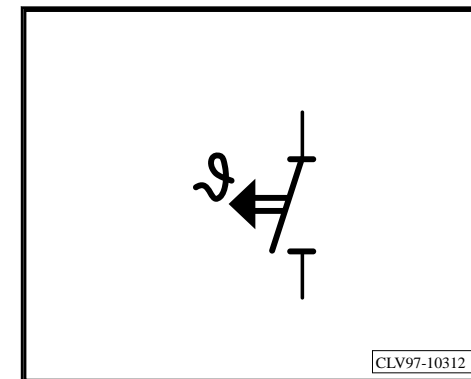
Manually Operated Switch



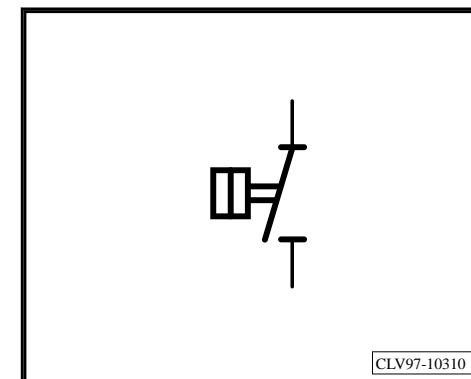
Push Button Switch



Mechanically Operated Switch

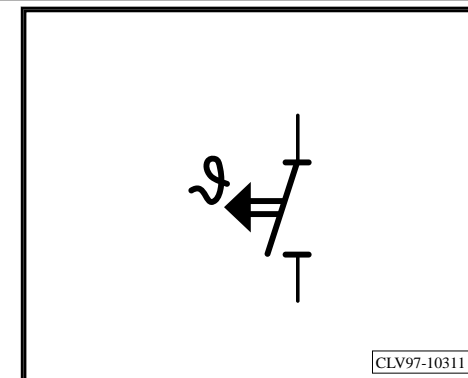


Pressure Operated Switch

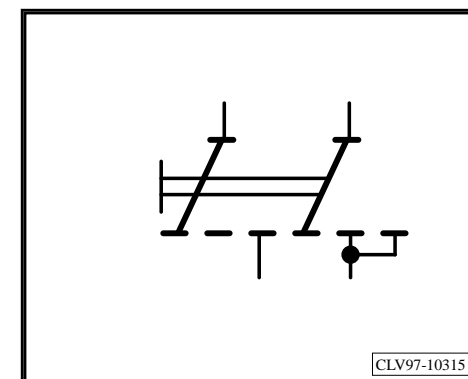


Thermally Operated Switch





Multiple Switch

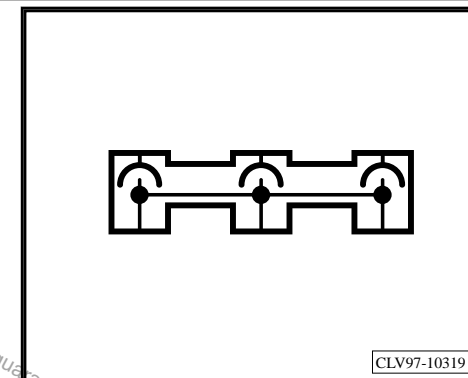


1.17.3 Wiring

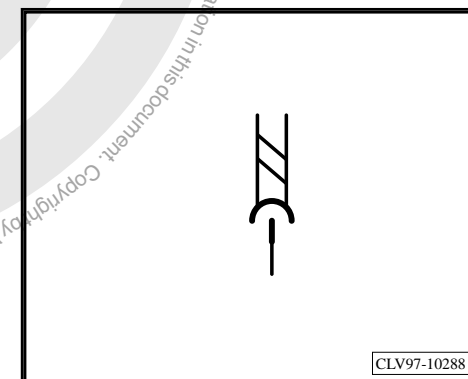
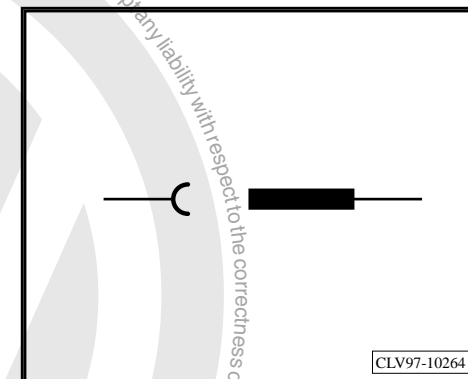
Wire Junction



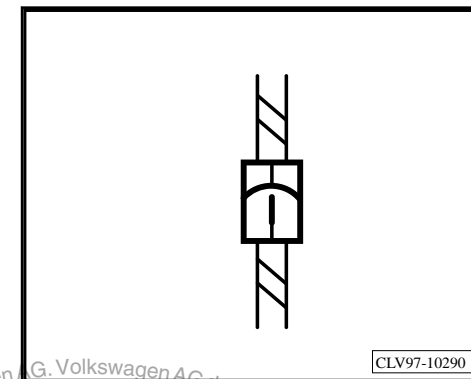
Disconnected Wire Terminal



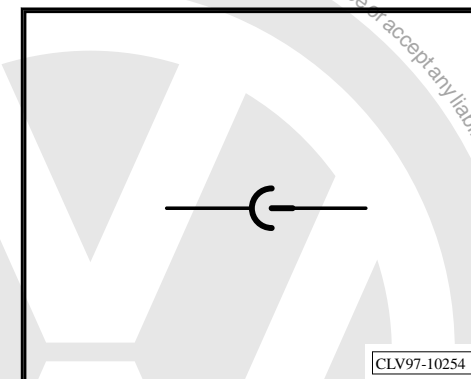
Multi Point Connection



Push On Connector



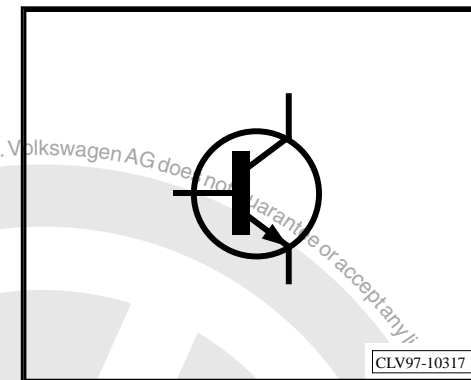
Connected Wire Terminal



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erWin

1.18 Transistor



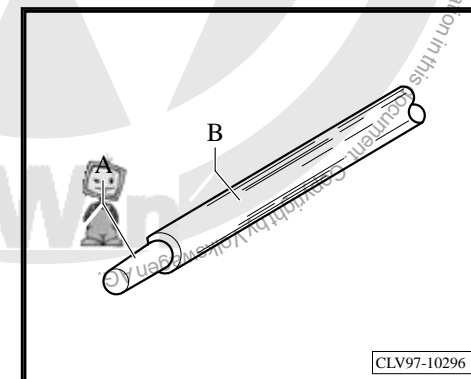
Transistor is a device composed of semiconductor material that amplifies a signal or opens or closes a circuit.

1.19 Wire

- ◆ A wire is a single conductor which usually has an outer layer of insulation

1.19.1 Wire Type

Single core wire



Single core wire: It consists of a solid wire with a plastic coating.

A - Strand

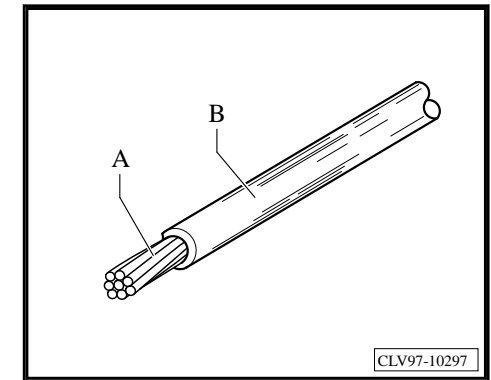
B - Insulating materials

Stranded wire

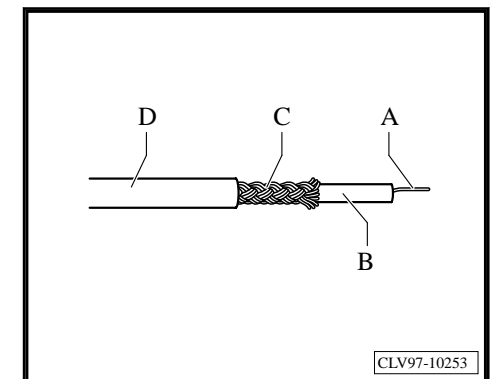
Stranded wire: It consists of many fine strands of wire covered with an outer plastic coating.

A - Strand

B - Insulating materials



Co-axial wire (cable)



♦ Co-axial wire (cable): It consists of insulated central wire which is used for signal, screen wires which are connected to 0 Volt to shield any electrical interference, and an outer sheath.

A - Signal wire

B - Insulation wire

C - Screen fine wires

D - Sheath

1.19.2 Wire color

Wire color is used to assist identify different circuit. It usually consists of one of two color: Base and Tracer. The base color is the dominant wire color whereas the tracer is thin color line.



Note

The brown colored wire - whether is solid brown or traced brown - is typically used for ground or controlled ground.

Circuit color abbreviation summary

| German Abbreviation | English Abbreviation | Explanation |
|---------------------|----------------------|-------------|
| bl | bl/lb | Blue |
| br | br | Brown |
| ge | yl | Yellow |
| gn | dg | Green |
| ro | rd | Red |
| sw | bk | Black |
| li | vi | Violet |
| ws | wt | White |

1.19.3 Wire Gauge

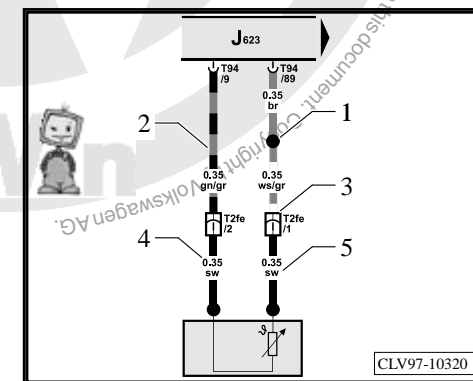
- ◆ Wire gauge: The term gauge is essentially a standard measure of thickness. A rule of thumb when understanding wire gauge : the lower the gauge number, the higher the bead.

| Metric Gauge Size in mm2 | America Wire Gauge (AWG) Size |
|--------------------------|-------------------------------|
| .35 | 22 |
| .50 | 20 |

| Metric Gauge Size in mm2 | America Wire Gauge (AWG) Size |
|--------------------------|-------------------------------|
| .75 | 18 |
| 1.00 | 16 |
| 1.50 | 14 |
| 2.50 | 12 |
| 4.00 | 10 |
| 6.00 | 8 |
| 16.0 | 4 |
| 25.0 | 2 |
| 35.0 | 2 |

1.19.4 Wire Layout

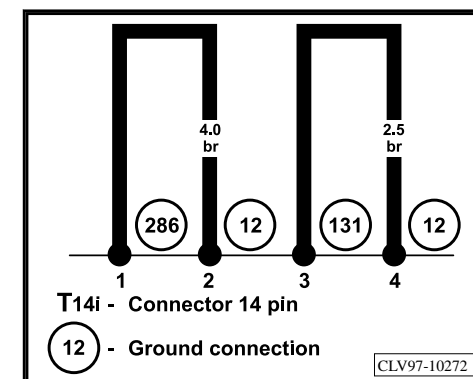
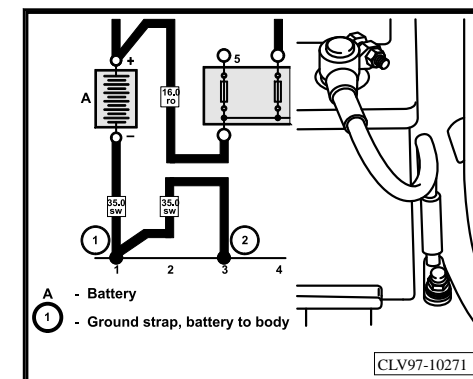
In this example we will identify a basic wire layout.



- 1 - Wire connection
- 2 - Circuit color - base circuit color covers 60%
- 3 - Harness inline connector
- 4 - Wire gauge
- 5 - Wire color

1.19.5 Wire Connection

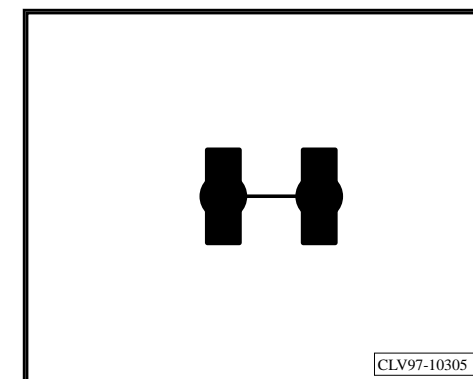
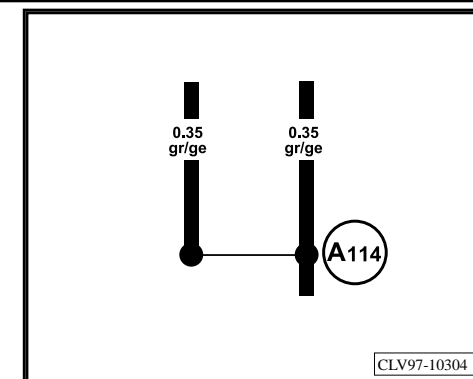
Wire connection: it is two or more spliced wires together of the same circuit function. There are two types of spliced wires: negative connection or positive connection wires.



The vehicle chassis acts as a common Ground conductor throughout the vehicle, and is identified by the line at the bottom of the wiring diagram above the current track numbers. This Ground line will also show Grounds that are welded connections in the harness. The number in the circle will be repeated in the legend with a description of the Ground connection.

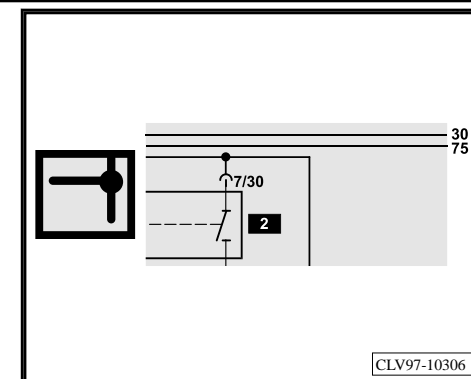
Ground connections are represented as a line at the bottom of the wiring diagram page, directly above the current track numbers. All ground connections, whether they occur as a splice in a harness, or the final ground source, are numbered and identified in the wiring diagram.

Some components, such as the starter or generator, may receive Ground where they are bolted to the engine or transmission. This is also shown as a thin black line.

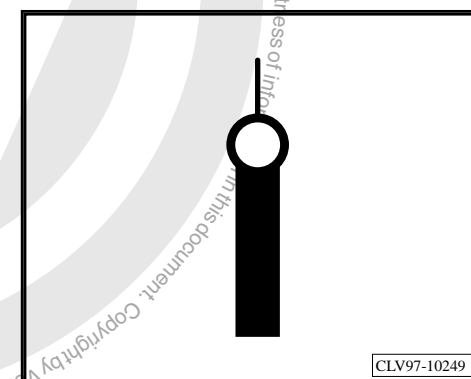
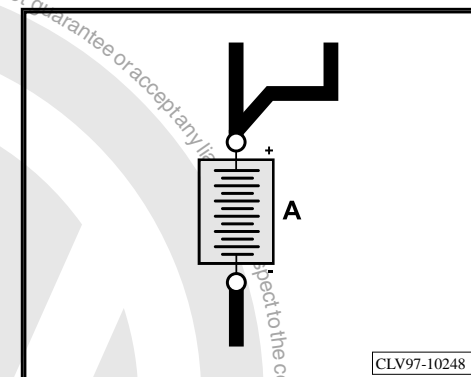


Welded connections are used in wiring harnesses to join multiple, smaller gauge wires to a single larger wire which terminates at the fuse relay panel or chassis ground.

Sometimes a welded connection is shown with the thin line not terminating at another wire. This symbolizes that this welded connection is used in other diagrams for the car. The technician may need to reference other diagrams to locate components or Grounds related to this connection.



Internal conductors exist inside components, acting as bridges between the wiring harness and the final consumer. In some components these conductors are labeled in the component. An example would be the 30 circuit (Battery +) in the central/relay panel. In other components the conductor is not labeled. Internal conductors are shown as thin, black lines.



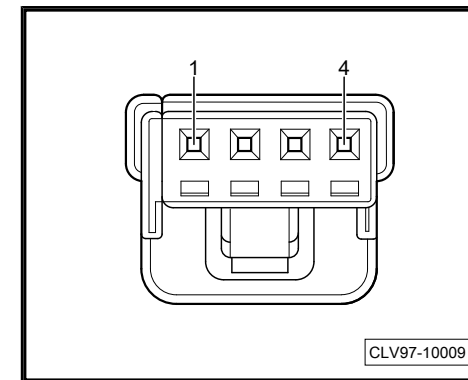
Threaded connectors are commonly used on the bottom of the fuse relay plate to distribute power and ground to components. The common connectors include battery power, ground, and load reduction (X).



1 Conn. Views Door Control Units

1.1 Front passenger door window regulator switch -E107-

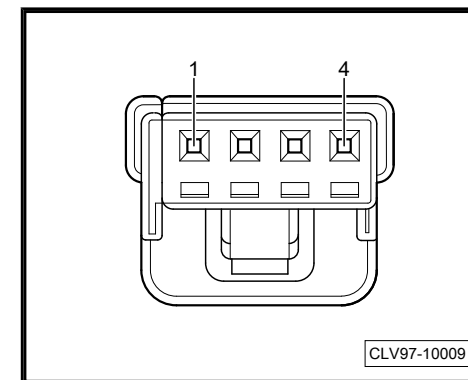
4-pin connector -T4ak-



| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|----------------|
| 1 | Ground (31) | 3 | ---- |
| 2 | Input, lighting/dimmer | 4 | Signal, switch |

1.2 Rear lid remote release button -E233-

4-pin connector -T4w-



| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|--|
| 1 | Ground (31) | 3 | ---- |
| 2 | Input, lighting/dimmer | 4 | Signal, rear lid remote release button |

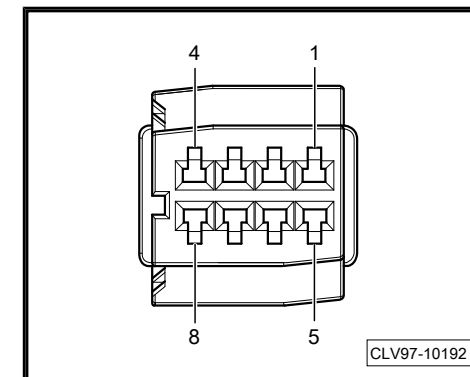
1.3 Automatic dimming interior rearview mirror -Y7-

♦ ⇒ ["1.3.1 High Line", page 2](#)

♦ ⇒ ["1.3.2 Low Line", page 2](#)

1.3.1 High Line

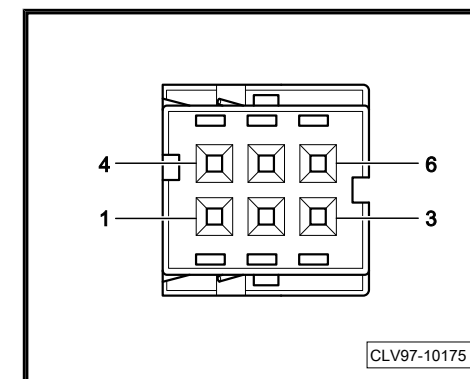
6-pin connector -T6d-



| Cavity | Function | Cavity | Function |
|--------|----------------------|--------|------------------------|
| 1 | Power (15), 12 volts | 5 | Mirror, EC (-) |
| 2 | Ground (31) | 6 | Input, lighting/dimmer |
| 3 | CAN High | 7 | ---- |
| 4 | Mirror, EC (+) | 8 | CAN Low |

1.3.2 Low Line

6-pin connector -T6d-

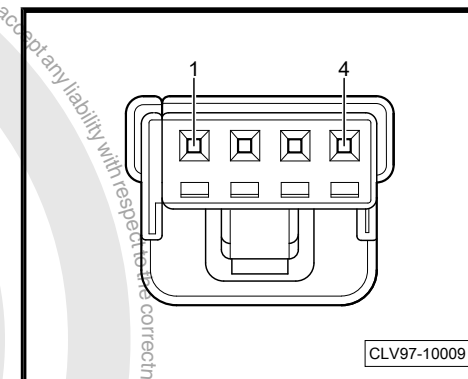


| Cavity | Function | Cavity | Function |
|--------|----------------------|--------|----------|
| 1 | Power (15), 12 volts | 4 | ---- |

| Cavity | Function | Cavity | Function |
|--------|---------------------|--------|----------------------------|
| 2 | Ground (31) | 5 | ---- |
| 3 | Input, reverse gear | 6 | Input, front reading light |

1.4 Driver interior locking button -E308-

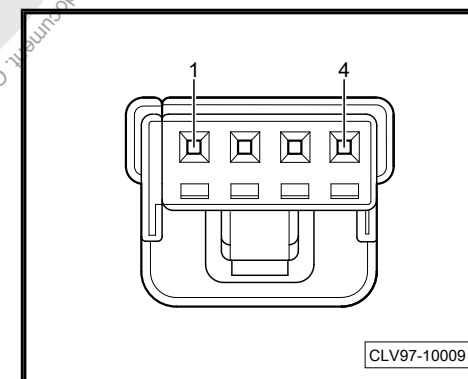
4-pin connector -T4am-



| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|-------------------------|
| 1 | Ground (31) | 3 | Signal, status LED Lock |
| 2 | Input, lighting/dimmer | 4 | Signal, switch |

1.5 Front passenger interior locking button -E309-

4-pin connector -T4an-



| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|-------------------------|
| 1 | Ground (31) | 3 | Signal, status LED Lock |
| 2 | Input, lighting/dimmer | 4 | Signal, switch |

1.6 Mirror adjusting switch -E43-

Mirror selector switch -E48-

Exterior rearview mirror heating switch -E231-

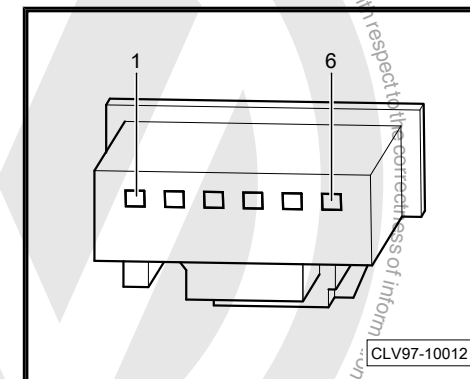
Mirror folding switch -E263-

◆ ⇒ [“1.6.1 High Line”, page 4](#)

◆ ⇒ [“1.6.2 Low Line”, page 5](#)

1.6.1 High Line

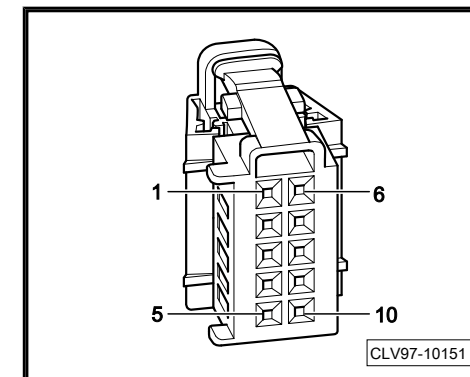
6-pin connector -T6al-



| Cavity | Function | Cavity | Function |
|--------|---------------------------|--------|--------------------------|
| 1 | Signal, mirror adjustment | 4 | ---- |
| 2 | Ground (31) | 5 | Signal, mirror selection |
| 3 | Signal, heat | 6 | Input, lighting/dimmer |

1.6.2 Low Line

10-pin connector -T10p-



| Cavity | Function | Cavity | Function |
|--------|--|--------|--|
| 1 | Signal, heating switch mirror, horizontal position | 6 | Signal, right mirror, up/down/left/right |
| 2 | Signal, right and left mirrors, up and down | 7 | Signal, left mirror, down/left/right |
| 3 | Ground (31) | 8 | Signal, mirror fold |
| 4 | Input, lighting | 9 | Signal, right mirror down/left/right |
| 5 | Power (15) | 10 | Signal, left mirror up/down/left/right |

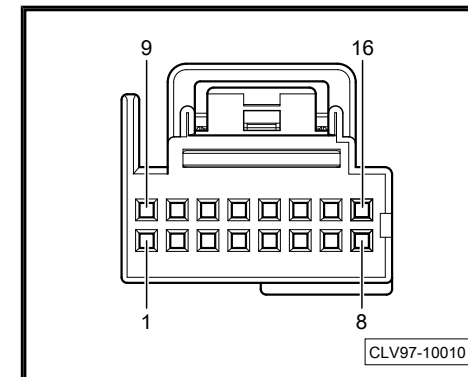
1.7 Driver passenger door control module -J386-

Driver window regulator motor -V147-

- ◆ ⇒ ["1.7.1 16-pin \(AW1\)", page 6](#)
- ◆ ⇒ ["1.7.2 16-pin \(AW0\)", page 6](#)
- ◆ ⇒ ["1.7.3 32-pin", page 7](#)
- ◆ ⇒ ["1.7.4 20-pin \(AW1\)", page 8](#)

1.7.1 16-pin (AW1)

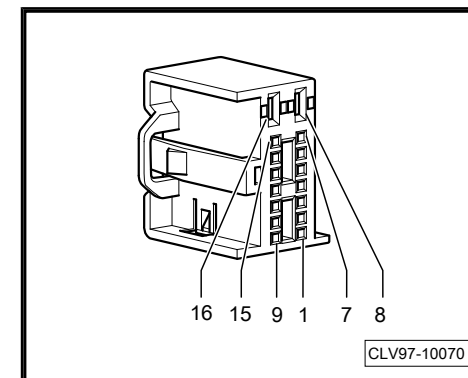
16-pin connector -T16a-



| Cavity | Function | Cavity | Function |
|--------|---|--------|---|
| 1 | Signal, mirror, horizontal position | 9 | Signal, mirror vertical position |
| 2 | Return, mirror horizontal and vertical position sensors | 10 | Signal, entry lamp in exterior rearview mirror |
| 3 | Supply, mirror horizontal and vertical position sensors | 11 | Ground (31) |
| 4 | Supply, mirror vertical adjustment motor | 12 | Supply, mirror horizontal adjustment motor |
| 5 | Return, mirror adjustment motors | 13 | Signal, exterior rearview mirror turn signal bulb |
| 6 | ---- | 14 | Supply, exterior rearview mirror folding motor, out |
| 7 | Signal, mirror heater | 15 | Supply, exterior rearview mirror folding motor, in |
| 8 | Return, automatic dimming exterior rearview mirror | 16 | Supply, automatic dimming exterior review mirror |

1.7.2 16-pin (AW0)

16-pin connector -T16a-

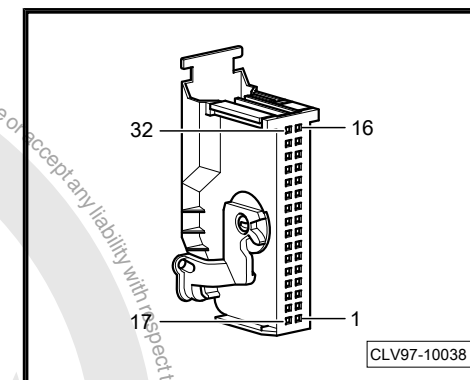


| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 1 | ---- | 9 | ---- |

| Cavity | Function | Cavity | |
|--------|--|--------|---|
| 2 | Supply, right rear window switch (driver module) | 10 | Signal, left rear window (driver module) |
| 3 | Signal, child safety lock -activated- indicator lamp (driver module) | 11 | Signal, child safety lock switch (driver module) |
| 4 | Signal, right front power window (driver module) | 12 | Signal, mirror folding switch (driver module) |
| 5 | LIN Bus | 13 | ---- |
| 6 | Signal, front window switch | 14 | Signal 2, folding mirror motor |
| 7 | Ground (31), door switches | 15 | Input, lock cylinder contact switch (driver module) |
| 8 | Ground (31), module | 16 | Power fused |

1.7.3 32-pin

32-pin connector -T32a-

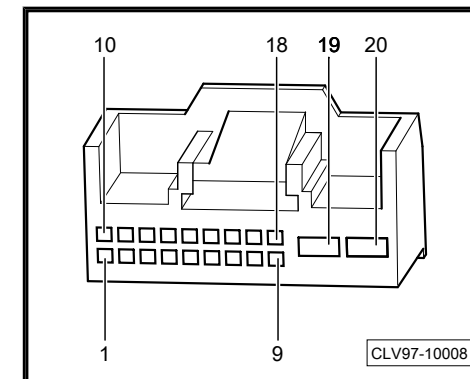


| Cavity | Function | Cavity | |
|--------|--|--------|---|
| 1 | Signal, interior locking indicator lamp | 17 | Signal, door ambient lighting bulb (optional) |
| 2 | Signal, central locking -SAFE- indicator lamp (driver module) | 18 | Signal, front entry lamp (optional) |
| 3 | Signal, child safety lock -activated- indicator lamp (driver module) | 19 | ---- |
| 4 | ---- | 20 | ---- |
| 5 | ---- | 21 | Ground (31) |
| 6 | Signal, mirror selector switch (driver module) | 22 | ---- |
| 7 | Signal, right rear power window button (driver module) | 23 | Signal, driver side rear power window button (driver module) |
| 8 | Signal, mirror adjusting switch (driver module) | 24 | Input, lighting/dimmer signal |
| 9 | ---- | 25 | Input, lighting/dimmer signal |
| 10 | ---- | 26 | ---- |
| 11 | ---- | 27 | ---- |
| 12 | ---- | 28 | Signal, exterior rearview mirror heating switch (driver module) |
| 13 | Signal, Fuel filler door release button (driver module) | 29 | ---- |

| Cavity | Function | Cavity | |
|--------|--|--------|--|
| 14 | Signal, Child safety lock button (driver module) | 30 | Signal, Rear lid remote release button (driver module) |
| 15 | Signal, right front power window switch | 31 | Signal, Left front window regulator switch (driver module) |
| 16 | ---- | 32 | Signal, interior locking button |

1.7.4 20-pin (AW1)

20-pin connector -T20a-



| Cavity | Function | Cavity | |
|--------|--|--------|---|
| 1 | Signal 1 (+), mirror dimming (driver module) | 11 | ---- |
| 2 | ---- | 12 | Ground, central locking system motor |
| 3 | Supply, driver door central locking system motor | 13 | Signal, central locking system motor |
| 4 | ---- | 14 | ---- |
| 5 | ---- | 15 | LIN Bus |
| 6 | Ground (31), door switches | 16 | Input, lock cylinder contact switch (driver module) |
| 7 | Signal, door contact switch | 17 | ---- |
| 8 | CAN High | 18 | Power (30) |
| 9 | CAN Low | 19 | Ground (31) |
| 10 | Signal 2 (-), mirror dimming (driver module) | 20 | Power (30) |

1.8 Left front window regulator switch -E40-

Right front power window switch in driver door -E81-

Left rear window regulator switch in driver door -E53-

Right rear window regulator switch in driver door -E55-

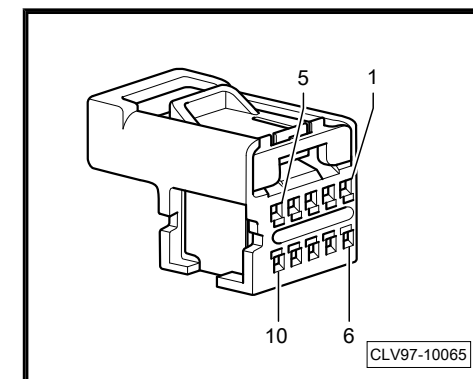
Child safety lock button -E318-

◆ ⇒ "1.8.1 W/ Front and Rear Power Windows", page 9

◆ ⇒ "1.8.2 W/O Rear Power Windows", page 9

1.8.1 W/ Front and Rear Power Windows

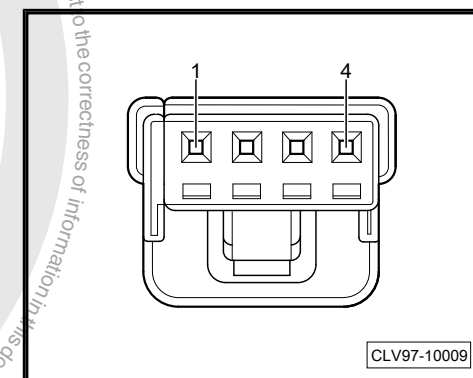
10-pin connector -T10f-



| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | Signal, child safety lock button, E318 | 6 | Signal, Front passenger power window switch, E81 |
| 2 | Signal, left child safety lock -activated- indicator lamp, K236 | 7 | Signal, Right rear power window switch, E55 |
| 3 | ---- | 8 | Signal, Left rear power window switch, E53 |
| 4 | Ground (31) | 9 | Input, lighting/dimmer |
| 5 | Signal, driver power window switch, E40 | 10 | ---- |

1.8.2 W/O Rear Power Windows

4-pin connector -T4fs-



| Cavity | Function | Cavity | Function |
|--------|-------------|--------|---|
| 1 | Ground (31) | 3 | Signal, driver power window switch, E40 |

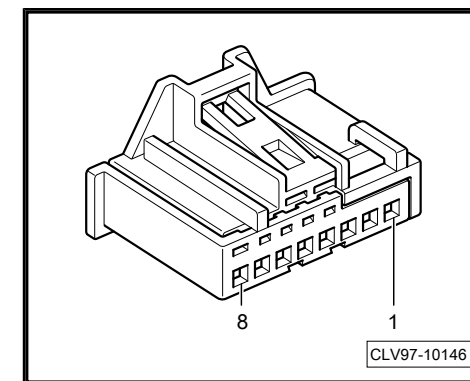
| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|--|
| 2 | Input, lighting/dimmer | 4 | Signal, front passenger power window switch, E81 |

1.9 Driver central locking lock unit -F220-

Driver door contact switch -F2-

Driver door central locking system motor -V56-

8-pin connector -T8f-



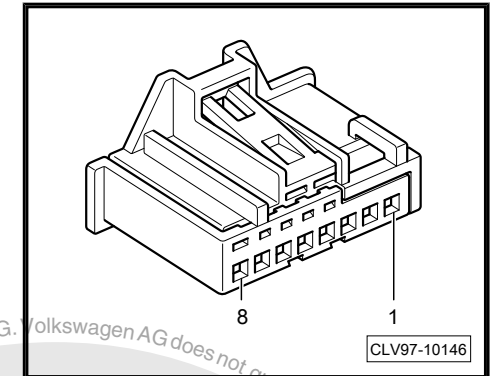
| Cavity | Function | Cavity | Function |
|--------|--|--------|--|
| 1 | Signal, Driver central locking lock unit | 5 | Signal, driver door contact switch, F3 |
| 2 | Ground (31), switch | 6 | Ground, motor |
| 3 | ---- | 7 | Signal, driver door central locking system motor |
| 4 | Supply, driver door central locking system motor | 8 | ---- |

1.10 Front passenger central locking lock unit -F221-

Front passenger door contact switch -F3-

Front passenger door central locking system motor -V57-

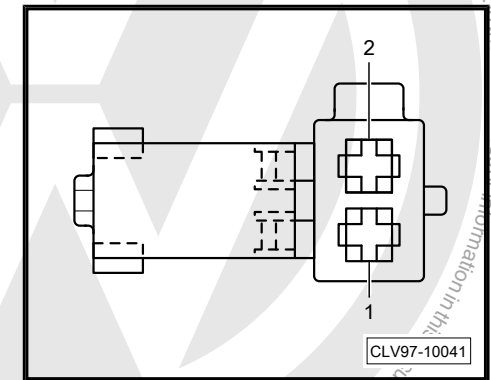
8-pin connector -T8h-



| Cavity | Function | Cavity | Function |
|--------|--|--------|--|
| 1 | Ground, motor | 5 | Signal, driver door contact switch, F2 |
| 2 | Signal, driver door central locking system motor | 6 | Ground (31), switch |
| 3 | ---- | 7 | ---- |
| 4 | Supply, driver door central locking system motor | 8 | ---- |

1.11 Driver interior locking indicator lamp -K174-

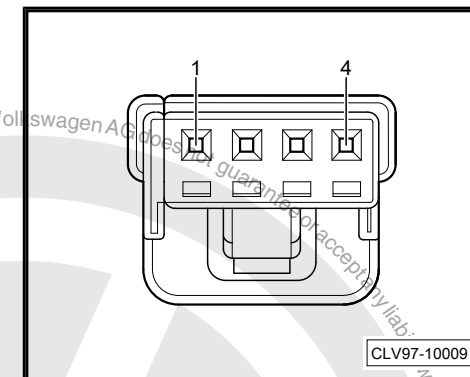
Double connector -T2z-



| Cavity | Function |
|--------|-------------|
| 1 | Ground (31) |
| 2 | Power (30) |

1.12 Left rear power window switch in left rear door -E52-

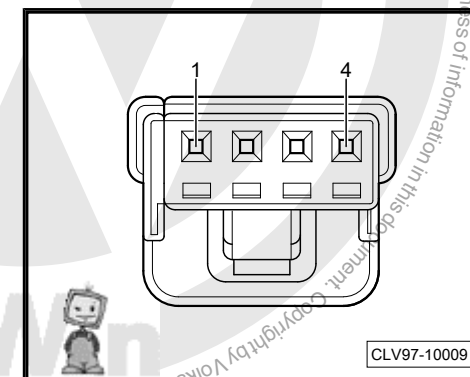
4-pin connector -T4aq-



| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|----------------|
| 1 | Ground (31) | 3 | ---- |
| 2 | Input, lighting/dimmer | 4 | Signal, switch |

1.13 Right rear window switch in right rear door -E54-

4-pin connector -T4ar-



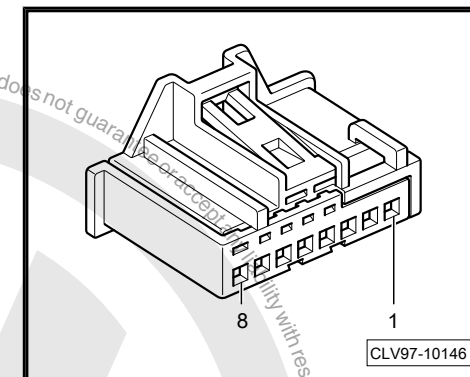
| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|----------------|
| 1 | Ground (31) | 3 | ---- |
| 2 | Input, lighting/dimmer | 4 | Signal, switch |

1.14 Left rear central locking lock unit -F222-

Left rear door contact switch -F10-

Left rear central locking -lock- motor -V214-

8-pin connector -T8s-



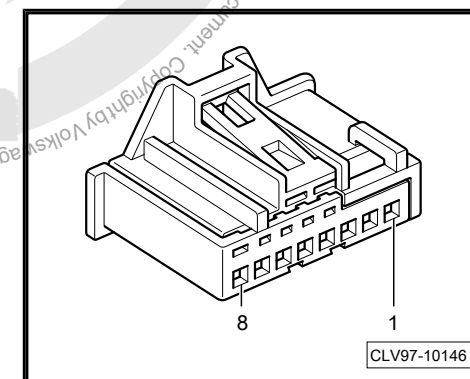
| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | Ground (31), switch | 5 | Supply, driver door central locking system motor |
| 2 | Signal, door contact switch, F10 | 6 | Ground, motor |
| 3 | Signal, driver door central locking system motor, if equipped | 7 | ---- |
| 4 | ---- | 8 | ---- |

1.15 Right rear central locking lock unit -F223-

Right rear door contact switch -F11-

Right rear central locking -lock- motor -V215-

8-pin connector -T8t-



| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | Ground (31), switch | 5 | Supply, driver door central locking system motor |
| 2 | Signal, door contact switch, F11 | 6 | Ground, motor |
| 3 | Signal, driver door central locking system motor, if equipped | 7 | ---- |

| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 4 | ---- | 8 | ---- |

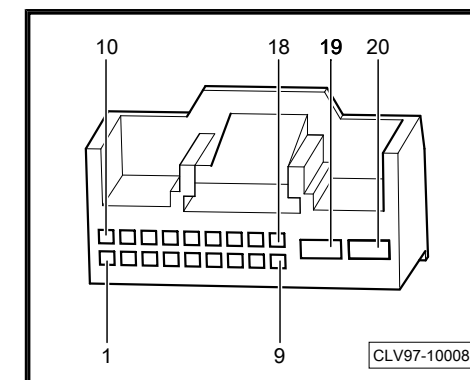
1.16 Left rear door control module -J388-

◆ ⇒ ["1.16.1 High Line", page 14](#)

◆ ⇒ ["1.16.2 Low Line", page 15](#)

1.16.1 High Line

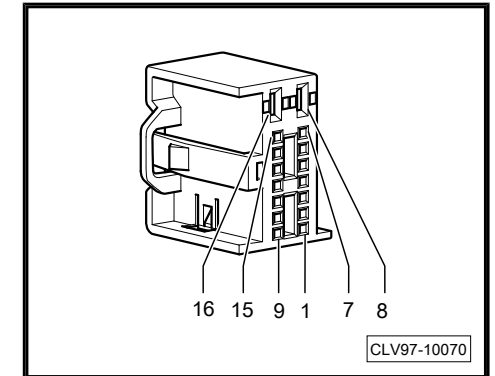
18-pin connector -T18a-



| Cavity | Function | Cavity | Function |
|--------|--|--------|----------------------------------|
| 1 | Ground (31), switch | 10 | Power (30), window motor |
| 2 | Ground (31) | 11 | Power (30), lock motor |
| 3 | Ground, Left rear central locking -lock- motor | 12 | LIN Bus |
| 4 | ---- | 13 | ---- |
| 5 | Supply, central locking motor | 14 | ---- |
| 6 | Signal, driver door central locking system motor | 15 | ---- |
| 7 | Signal, rear door contact switch | 16 | Input, lighting/dimmer |
| 8 | Rear center interior locking switch (left side) | 17 | Status, LED lock (left side) |
| 9 | Ground (31), module | 18 | Signal, rear power window switch |

1.16.2 Low Line

16-pin connector -T16h-



| Cavity | Function | Cavity | |
|--------|----------------------|--------|--------------------|
| 1 | ---- | 9 | ---- |
| 2 | ---- | 10 | ---- |
| 3 | ---- | 11 | ---- |
| 4 | ---- | 12 | ---- |
| 5 | LIN Bus | 13 | ---- |
| 6 | Signal, window motor | 14 | ---- |
| 7 | Ground (31), switch | 15 | ---- |
| 8 | Ground (31), module | 16 | Power (30), module |

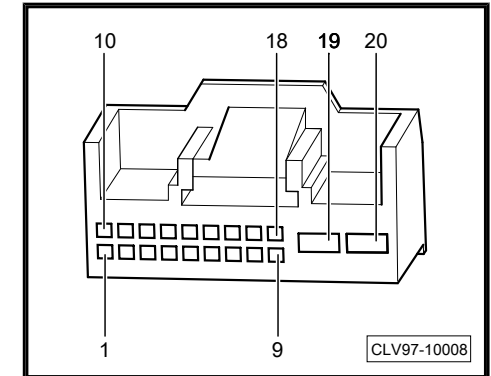
1.17 Right rear door control module -J389-

◆ ⇒ ["1.17.1 High line", page 16](#)

◆ ⇒ ["1.17.2 Low line", page 16](#)

1.17.1 High line

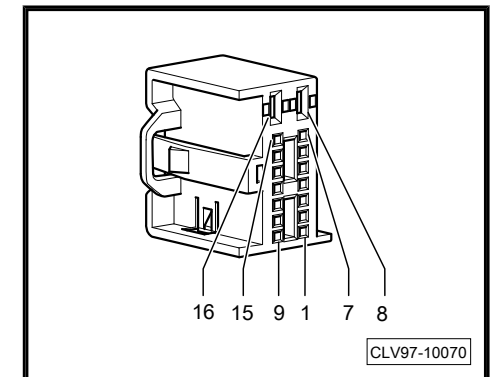
18-pin connector -T18b-



| Cavity | Function | Cavity | Function |
|--------|--|--------|----------------------------------|
| 1 | Ground (31), switch | 10 | Power (30), window motor |
| 2 | Ground (31) | 11 | Power (30), lock motor |
| 3 | Ground, Left rear central locking -lock- motor | 12 | LIN Bus |
| 4 | ---- | 13 | ---- |
| 5 | Supply, central locking motor | 14 | ---- |
| 6 | Signal, driver door central locking system motor | 15 | ---- |
| 7 | Signal, rear door contact switch | 16 | Input, lighting/dimmer |
| 8 | Rear center interior locking switch (left side) | 17 | Status, LED lock (left side) |
| 9 | Ground (31), module | 18 | Signal, rear power window switch |

1.17.2 Low line

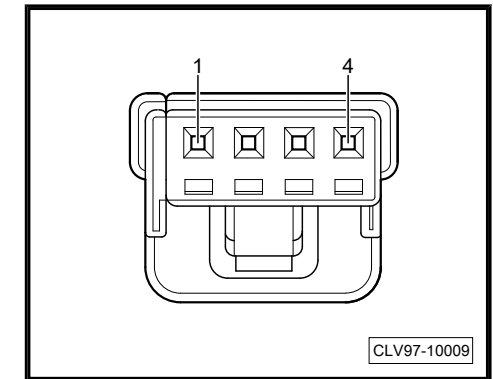
16-pin connector -T16i-



| Cavity | Function | Cavity | |
|--------|----------------------|--------|--------------------|
| 1 | ---- | 9 | ---- |
| 2 | ---- | 10 | ---- |
| 3 | ---- | 11 | ---- |
| 4 | ---- | 12 | ---- |
| 5 | LIN Bus | 13 | ---- |
| 6 | Signal, window motor | 14 | ---- |
| 7 | Ground (31), switch | 15 | ---- |
| 8 | Ground (31), module | 16 | Power (30), module |

1.18 Rear center interior locking switch -E286-

4-pin connector -T4bz-



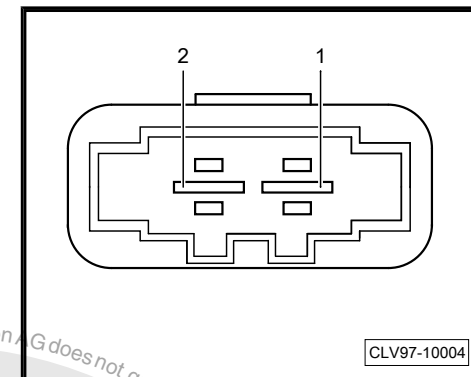
| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|------------------|
| 1 | Ground (31) | 3 | Status, LED lock |
| 2 | Input, lighting/dimmer | 4 | Signal, switch |

1 Conn. Views A/C Systems

1.1 Fresh air blower -V2-

♦ For Climatronic refer to J126 ⇒ [page 1](#)

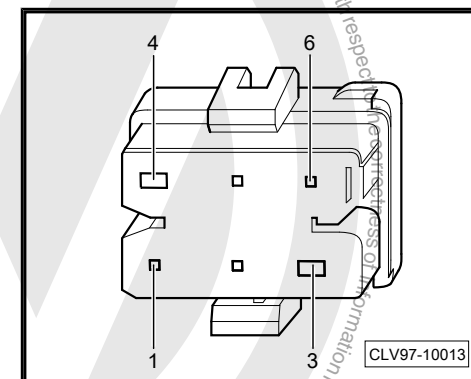
Double connector -T2v-



| Cavity | Function |
|--------|---------------|
| 1 | Power, motor |
| 2 | Ground, motor |

1.1.1 Fresh air blower control module -J126-

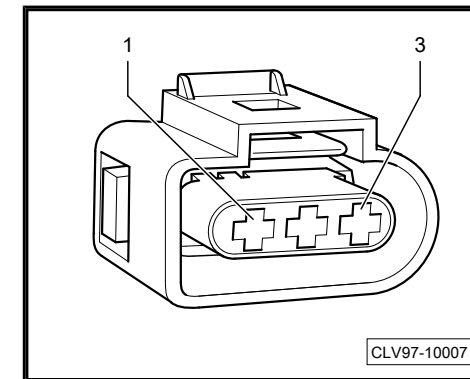
6-pin connector -T6t-



| Cavity | Function | Cavity | Function |
|--------|--------------------------|--------|---------------|
| 1 | Diagnosis signal, output | 4 | Power, module |
| 2 | PWM signal, input | 5 | |
| 3 | Ground, module | 6 | |

1.2 High pressure sensor -G65-

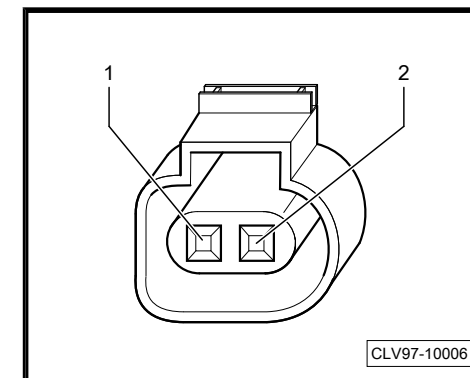
3-pin connector -T3c-



| Cavity | Function |
|--------|--------------------|
| 1 | Ground, sensor |
| 2 | PWM signal, sensor |
| 3 | Power, sensor |

1.3 A/C compressor regulator valve -N280-

Double connector -T2m-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.4 A/C control module -J301-

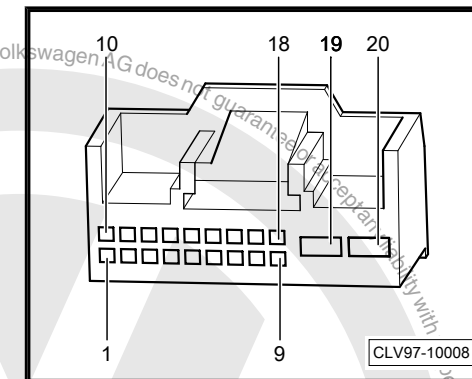
◆ ⇒ "1.4.1 20-Pin", page 3

◆ ⇒ "1.4.2 16-Pin", page 4

◆ ⇒ "1.4.3 5-Pin", page 4

1.4.1 20-Pin

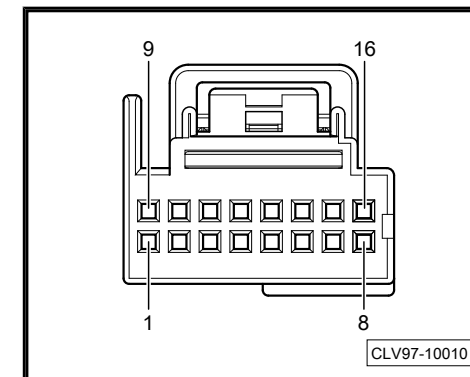
20-pin connector -T20c-



| Cavity | Function | Cavity | Function |
|--------|--|--------|--|
| 1 | ... | 11 | ... |
| 2 | ... | 12 | Front seat heating control module, right |
| 3 | Center vent temperature sensor, signal | 13 | Front seat heating control module, left |
| 4 | ... | 14 | ... |
| 5 | High pressure sensor | 15 | ... |
| 6 | ... | 16 | A/C compressor regulator valve |
| 7 | CAN Low | 17 | ... |
| 8 | CAN High | 18 | Center vent temperature sensor, ground |
| 9 | ... | 19 | Battery power, module |
| 10 | ... | 20 | Ground, module |

1.4.2 16-Pin

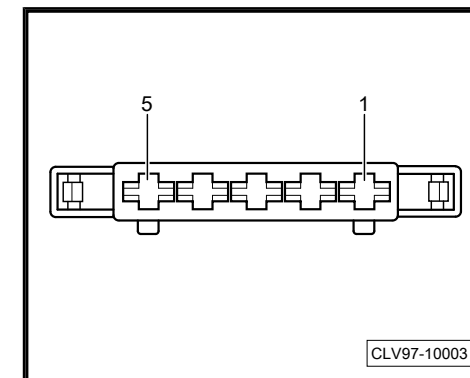
16-pin connector -T16e-



| Cavity | Function | Cavity | Function |
|--------|--|--------|--|
| 1 | Temperature regulator door motor, hot | 9 | Recirculation door motor, open |
| 2 | Evaporator vent temperature sensor, signal | 10 | Recirculation door motor, close |
| 3 | Air distribution door motor position sensor, signal | 11 | Temperature regulator door motor, cold |
| 4 | Footwell vent temperature sensor, signal | 12 | Air distribution door motor, mode 1 |
| 5 | Left temperature door potentiometer/actuator, signal | 13 | Air distribution door motor, mode 2 |
| 6 | ... | 14 | ... |
| 7 | 5 Volt, output | 15 | ... |
| 8 | Ground, sensor | 16 | ... |

1.4.3 5-Pin

5-pin connector -T5-



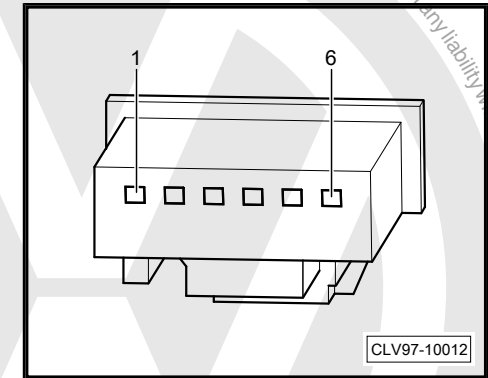
| Cavity | Function | Cavity | Function |
|--------|-----------------------------------|--------|-----------------------------------|
| 1 | Fresh air blower resistor, step 3 | 4 | Fresh air blower resistor, step 4 |

| Cavity | Function | Cavity | Function |
|--------|-----------------------------------|--------|-------------------------|
| 2 | Fresh air blower resistor, step 2 | 5 | Power, fresh air blower |
| 3 | Fresh air blower resistor, step 1 | | |

1.5 Air distribution door motor -V428-

Air distribution door motor position sensor -G645-

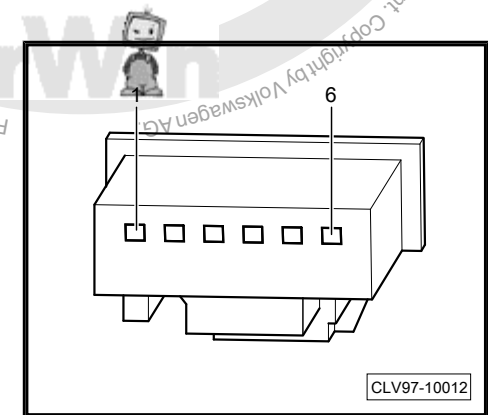
6-pin connector -T6aj-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|---------------|
| 1 | Ground, sensor | 4 | |
| 2 | Signal, sensor | 5 | Motor, mode 1 |
| 3 | 5 volt, sensor | 6 | Motor mode 2 |

1.6 Recirculation door motor -V113-

6-pin connector -T6k-

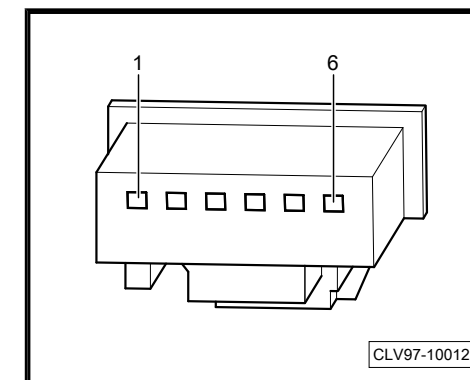


| Cavity | Function | Cavity | Function |
|--------|----------|--------|---------------|
| 1 | ... | 4 | ... |
| 2 | ... | 5 | Motor, open |
| 3 | ... | 6 | Motor, closed |

1.7 Temperature regulator door motor -V68-

Left temperature door potentiometer/actuator -G220-

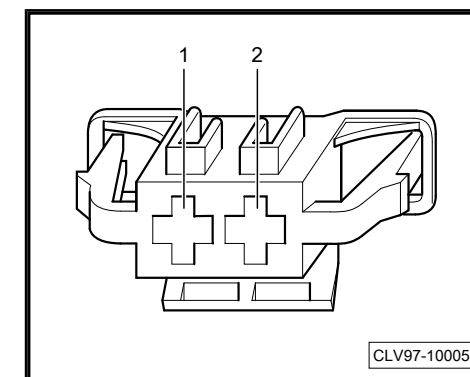
6-pin connector -T6m-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|-------------|
| 1 | Ground, sensor | 4 | ... |
| 2 | Signal, sensor | 5 | Motor, hot |
| 3 | 5 volt, sensor | 6 | Motor, cold |

1.8 Evaporator vent temperature sensor -G263-

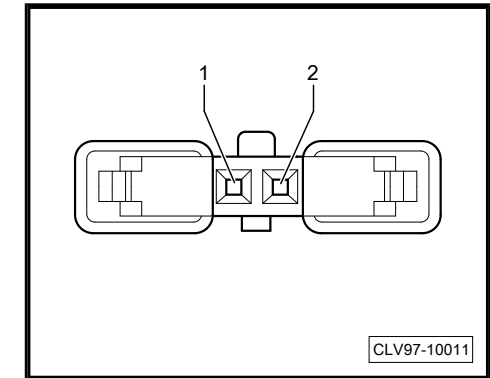
Double connector -T2zb-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.9 Footwell vent temperature sensor -G192-

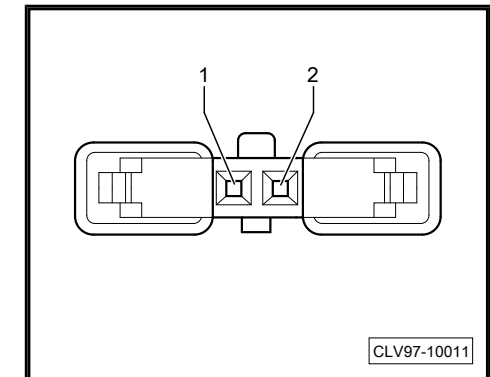
Double connector -T2za-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.10 Center vent temperature sensor -G191-

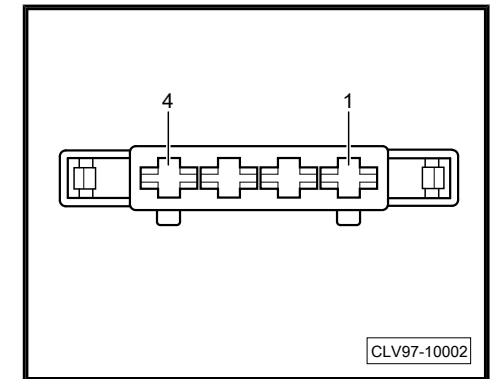
Double connector -T2zc-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.11 Fresh air blower series resistor with fuse -N24-

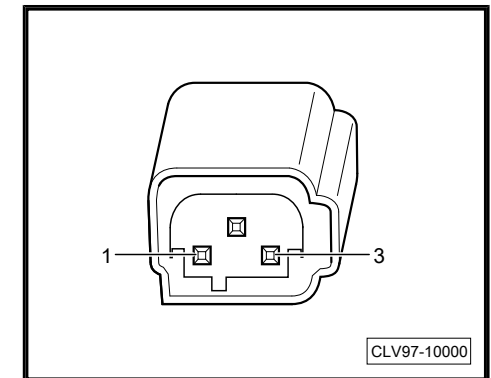
4-pin connector -T4f-



| Cavity | Function | Cavity | Function |
|--------|-----------------------------------|--------|-----------------------------------|
| 1 | Fresh air blower resistor, step 4 | 3 | Fresh air blower resistor, step 1 |
| 2 | Fresh air blower resistor, step 2 | 4 | Fresh air blower resistor, step 3 |

1.12 Air quality sensor -G238-

3-pin connector -T3aw-



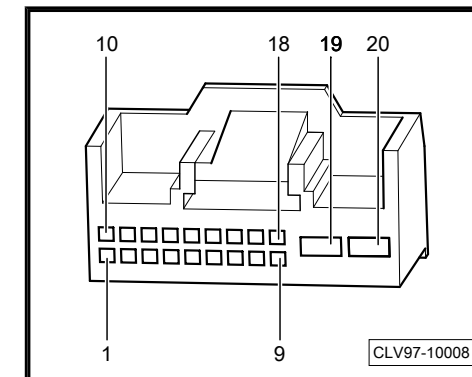
| Cavity | Function |
|--------|--------------------------|
| 1 | Switched battery, sensor |
| 2 | Ground, sensor |
| 3 | PWM signal, output |

1.13 Climatronic control module -J255-

- ◆ ⇒ ["1.13.1 20-Pin \(c\)", page 9](#)
- ◆ ⇒ ["1.13.2 16-Pin \(g\)", page 10](#)
- ◆ ⇒ ["1.13.3 16-Pin \(e\)", page 10](#)

1.13.1 20-Pin (c)

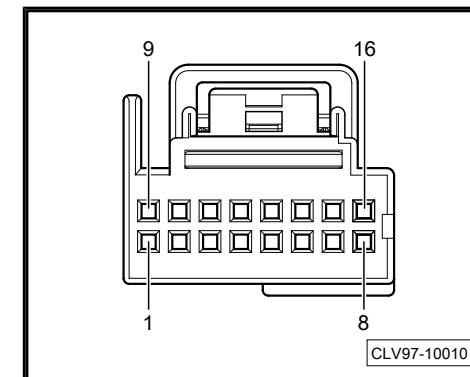
20-pin connector -T20c-



| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | Sunlight photo sensor signal, right | 11 | Front seat heating control module, right |
| 2 | High pressure sensor, PWM signal | 12 | ... |
| 3 | Sunlight photo sensor signal, left | 13 | Left vent temperature sensor |
| 4 | Air quality sensor, PWM signal | 14 | Right vent temperature sensor |
| 5 | CAN High | 15 | ... |
| 6 | CAN Low | 16 | ... |
| 7 | ... | 17 | Signal ground |
| 8 | ... | 18 | A/C compressor regulator valve, PWM signal |
| 9 | Output, 5 volt sensor | 19 | Ground, module |
| 10 | Front seat heating control module, left | 20 | Battery power, module |

1.13.2 16-Pin (g)

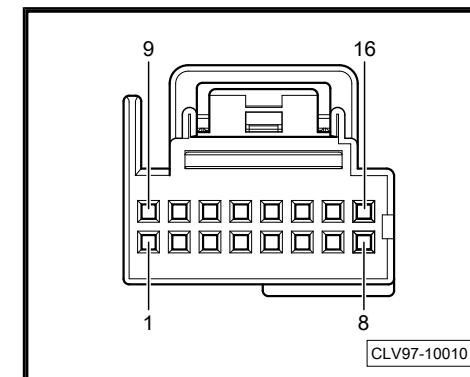
16-pin connector -T16g-



| Cavity | Function | Cavity | Function |
|--------|---|--------|---|
| 1 | 5 volt sensor, output | 9 | Right footwell vent temperature sensor, input |
| 2 | Left temperature door potentiometer/actuator, sensor input (5v = warm) | 10 | ... |
| 3 | Right temperature door potentiometer/actuator, sensor input (5v = warm) | 11 | Evaporator temperature sensor, input |
| 4 | Defroster door motor position sensor, sensor input (5v = defrost) | 12 | ... |
| 5 | Central door motor position sensor, sensor input (5v = instrument panel) | 13 | ... |
| 6 | ... | 14 | Signal ground |
| 7 | Fresh air/recirculating air/back pressure door motor position sensor, input | 15 | ... |
| 8 | Left footwell vent temperature sensor, input | 16 | ... |

1.13.3 16-Pin (e)

16-pin connector -T16e-



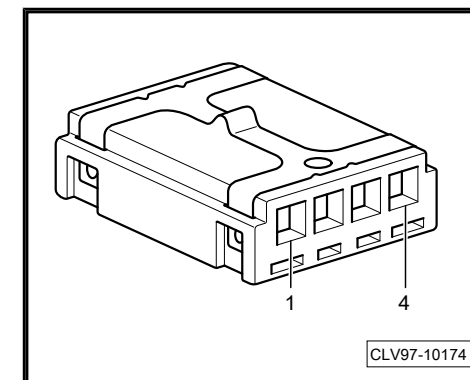
| Cavity | Function | Cavity | Function |
|--------|-----------------------------------|--------|---|
| 1 | Left temperature door motor, cold | 9 | Fresh air/recirculating air/back pressure door motor, recirculation |

| Cavity | Function | Cavity | Function |
|--------|--|--------|---|
| 2 | Left temperature door motor, hot | 10 | Fresh air/recirculating air/back pressure door motor, fresh air |
| 3 | Defroster door motor, no defrost | 11 | Right temperature door motor, cold |
| 4 | Defroster door motor, defrost | 12 | Right temperature door motor, hot |
| 5 | Central air door motor, instrument panel | 13 | ... |
| 6 | Central air door motor, footwell | 14 | ... |
| 7 | ... | 15 | Fresh air blower control module, PWM signal |
| 8 | ... | 16 | Fresh air blower control module diagnosis signal, input |

1.14 Sunlight photo sensor -G107-

Sunlight photo sensor 2 -G134-

4-pin connector -T4n-



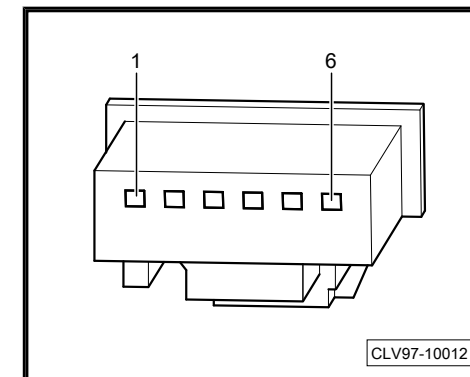
| Cavity | Function | Cavity | Function |
|--------|----------------------|--------|---------------------|
| 1 | Right sensor, signal | 3 | Ground, sensor |
| 2 | 5 Volt, sensor | 4 | Left sensor, signal |

1.15 Left temperature door motor -V158-

Left temperature door potentiometer/actuator -G220-

For Climatic refer to ⇒ [page 6](#)

6-pin connector -T6p-

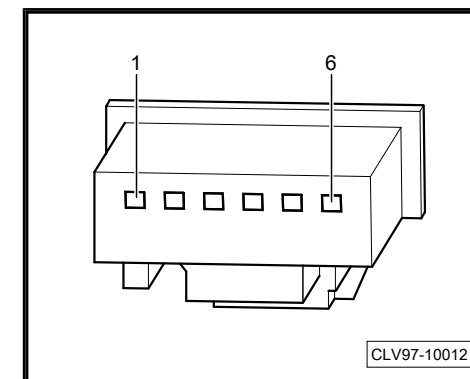


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|-------------|
| 1 | Ground, sensor | 4 | ... |
| 2 | Signal, sensor | 5 | Motor, hot |
| 3 | 5 volt, sensor | 6 | Motor, cold |

1.16 Right temperature door motor -V159-

Right temperature door potentiometer/actuator -G221-

6-pin connector -T6t-

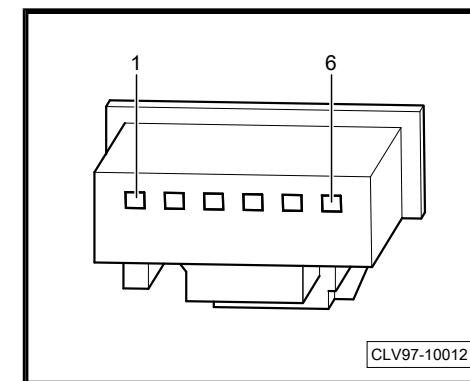


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|-------------|
| 1 | 5 volt, sensor | 4 | ... |
| 2 | Signal, sensor | 5 | Motor, cold |
| 3 | Ground, sensor | 6 | Motor, hot |

1.17 Defroster door motor -V107-

Defroster door motor position sensor -G135-

6-pin connector -T6q-

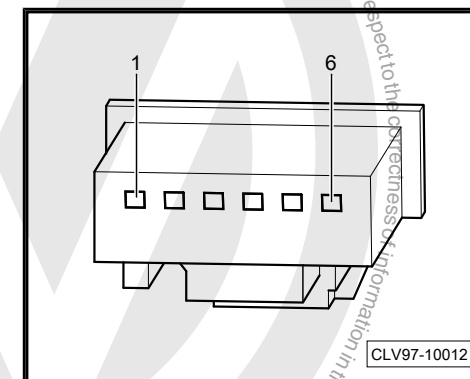


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|---------------------|
| 1 | 5 volt, sensor | 4 | ... |
| 2 | Signal, sensor | 5 | Motor, no defrost |
| 3 | Ground, sensor | 6 | Motor, full defrost |

1.18 Fresh air/recirculating air/back pressure door motor -V425-

Fresh air/recirculating air/back pressure door motor position sensor -G644-

6-pin connector -T6r-

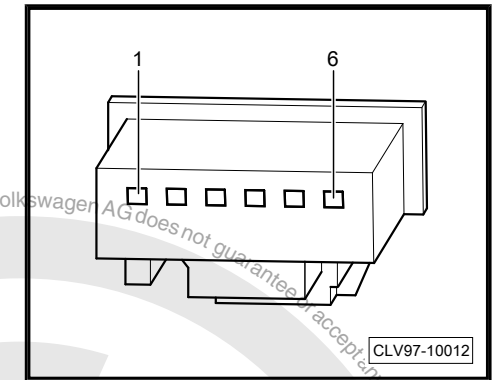


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------------|
| 1 | Ground, sensor | 4 | ... |
| 2 | Signal, sensor | 5 | Motor, recirculation |
| 3 | 5 volt, sensor | 6 | Motor, fresh air |

1.19 Central air door motor -V70-

Central door motor position sensor -G112-

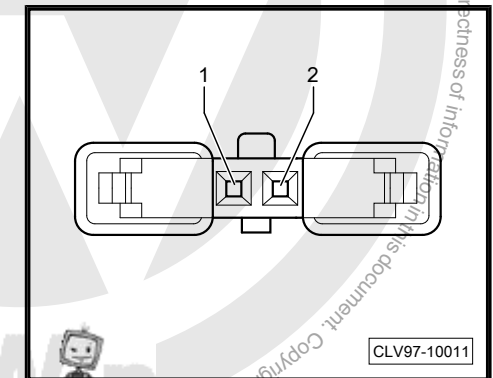
6-pin connector -T6n-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|-------------|
| 1 | Ground, sensor | 4 | ... |
| 2 | Signal, sensor | 5 | Motor, vent |
| 3 | 5 volt, sensor | 6 | Motor, foot |

1.20 Left footwell vent temperature sensor -G261-

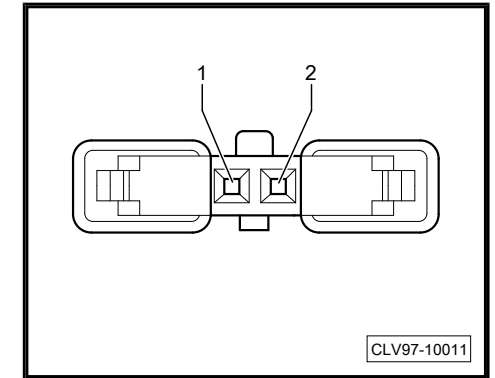
Double connector -T2da-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.21 Right footwell vent temperature sensor -G262-

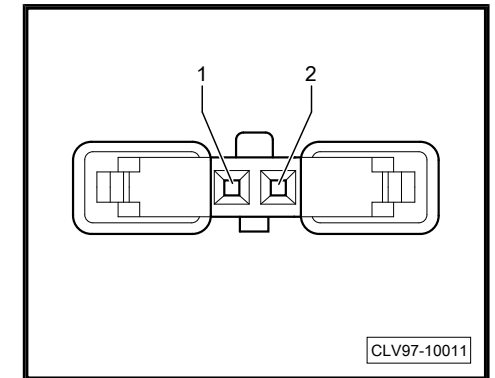
Double connector -T2db-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.22 Left vent temperature sensor -G150-

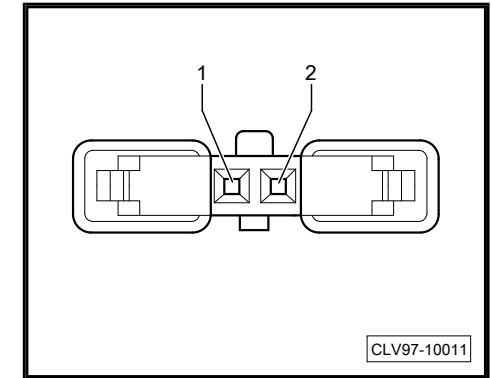
Double connector -T2bh-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.23 Right vent temperature sensor -G151-

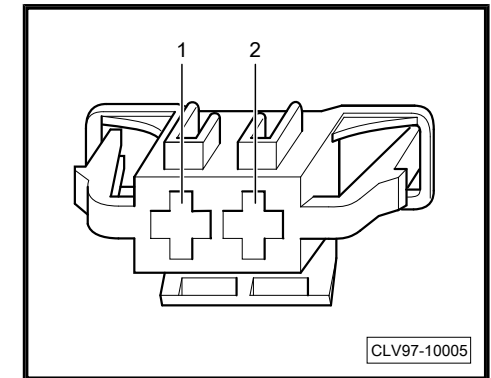
Double connector -T2bq-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.24 Evaporator temperature sensor -G308-

Double connector -T2j-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1 Conn. Views ABS

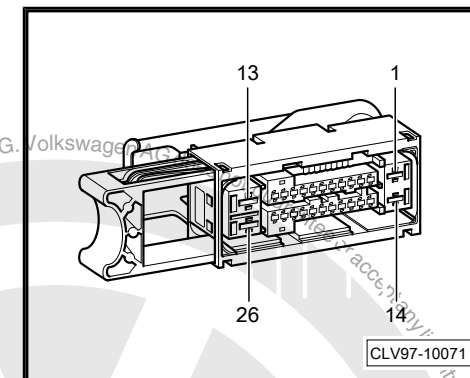
1.1 ABS control module -J104-

♦ ⇒ ["1.1.1 W/O ESP", page 1](#)

♦ ⇒ ["1.1.2 W/ ESP", page 2](#)

1.1.1 W/O ESP

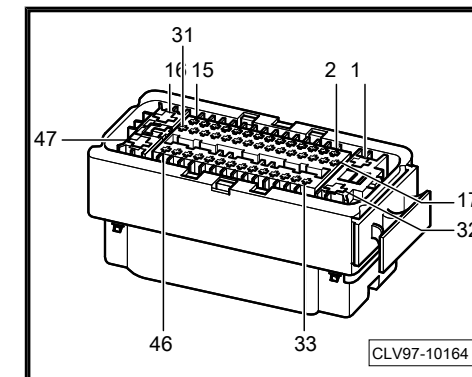
26-pin connector -T26-



| Cavity | Function | Cavity | Function |
|--------|--|--------|---|
| 1 | Power fuse , module | 14 | ..... |
| 2 | Rear left sensor ground | 15 | Module self check - (coupling steering type option) |
| 3 | Rear left sensor signal | 16 | Brake light switch (BLS) signal |
| 4 | ASR signal (Optional for certain vehicles) | 17 | Module self check - (coupling steering type option) |
| 5 | Front right sensor signal | 18 | ..... |
| 6 | Front right sensor ground | 19 | ..... |
| 7 | TPMS signal (optional) | 20 | Power ignition, module |
| 8 | Front left sensor ground | 21 | CAN-L signal |
| 9 | Front left sensor signal | 22 | Module self check - (coupling steering type option) |
| 10 | ASR off (optional) | 23 | CAN-H signal |
| 11 | Right rear sensor signal | 24 | Module self check - (coupling steering type option) |
| 12 | Right rear sensor ground | 25 | ---- |
| 13 | ..... | 26 | Ground (31), module |

1.1.2 W/ ESP

47-pin connector -T47-

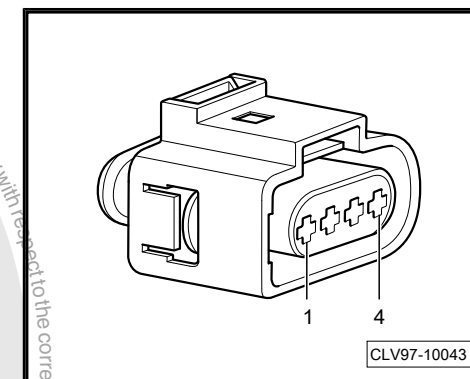


| Cavity | Function | Cavity | Function |
|--------|---------------------------|--------|---|
| 1 | Power fuse, module | 25 | (PDC2 optional) |
| 2 | ..... | 26 | ..... |
| 3 | Auto Hold signal | 27 | ..... |
| 4 | ..... | 28 | (PDC3 optional) |
| 5 | 5 volts - Vacuum sensor | 29 | ..... |
| 6 | ..... | 30 | (Vacuum sensor 2 signal , optional) |
| 7 | (RR_ out optional) | 31 | ..... |
| 8 | Power ignition, module | 32 | Power ignition, module |
| 9 | ----- (RL_ out optional) | 33 | Front right speed sensor ground |
| 10 | ----- (ISO_K optional) | 34 | Front right speed sensor signal |
| 11 | ----- (FR_ out optional) | 35 | TPMS (RKA) signal - if equipped |
| 12 | CAN-H signal | 36 | Left rear wheel speed sensor signal |
| 13 | CAN-L signal | 37 | Left rear wheel speed sensor ground |
| 14 | (L_ out optional) | 38 | Brake light switch (BLS) signal |
| 15 | Auto Hold lamp input | 39 | ESP sensor signal |
| 16 | ---- (Ground VS optional) | 40 | Vacuum sensor ground |
| 17 | ..... | 41 | Vacuum sensor signal |
| 18 | ..... | 42 | Right rear wheel speed sensor ground |
| 19 | ..... | 43 | Right rear wheel speed sensor signal |
| 20 | (PDC1 optional) | 44 | (ESP_LED optional) |
| 21 | ..... | 45 | Front left wheel speed sensor signal |
| 22 | ..... | 46 | Front left wheel speed sensor ground |
| 23 | ..... | 47 | Ground, module |

| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 24 | | | |

1.2 Vacuum sensor -G608-

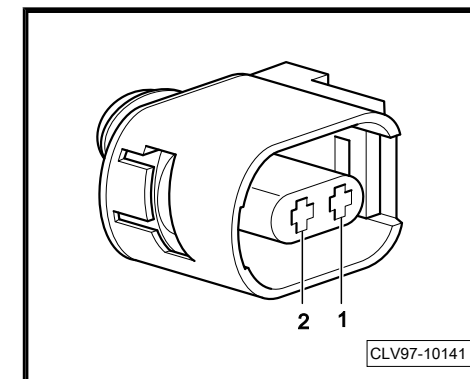
4-pin connector -T4bn-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Ground, sensor | 3 | 5 V, sensor |
| 2 | ..... | 4 | Signal, sensor |

1.3 Right rear ABS wheel speed sensor -G44-

Double connector -T2au-

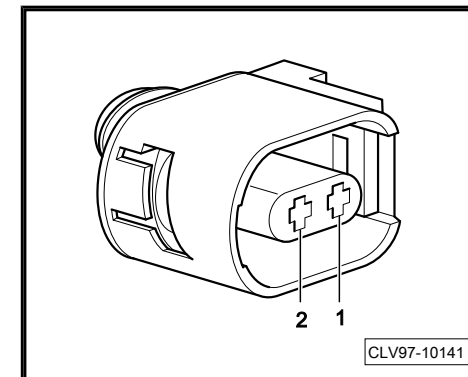


| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.4 Right front ABS wheel speed sensor

-G45-

-T2as-

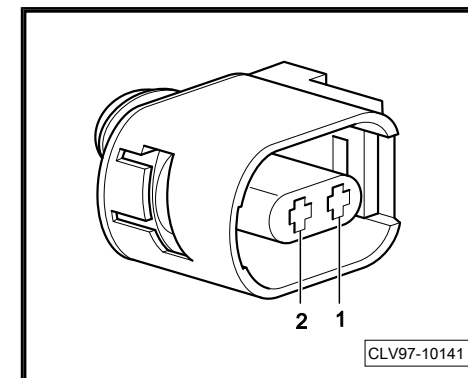


| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.5 Left rear ABS wheel speed sensor

-G46-

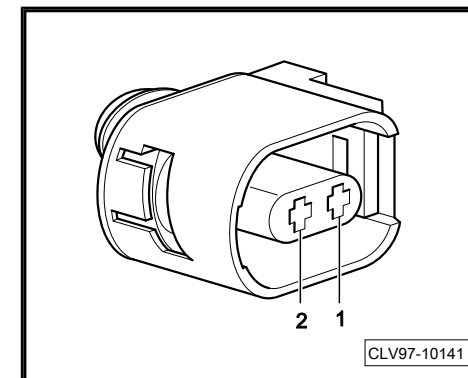
-T2at-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

**1.6 Left front ABS wheel speed sensor
-G47-**

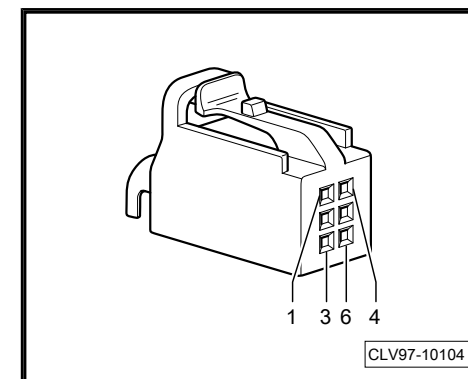
-T2ar-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

**1.7 Tire pressure monitoring display button
-E492-**

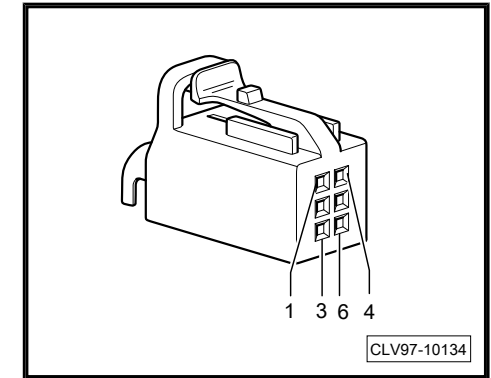
6-pin connector -T6ak-



| Cavity | Function | Cavity | Function |
|--------|------------------|--------|----------------|
| 1 | ..... | 4 | 5 V, sensor |
| 2 | ..... | 5 | Signal, sensor |
| 3 | Power (58d), LED | 6 | Ground |

1.8 ASR switch -E132-

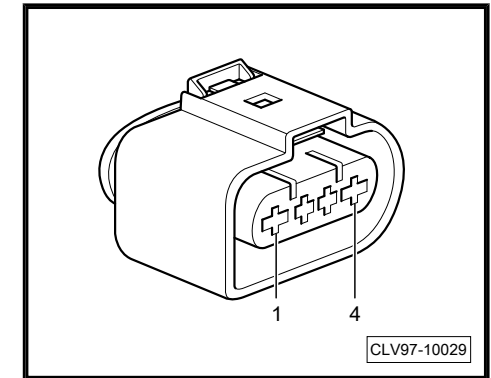
6-pin connector -T6ad-



| Cavity | Function | Cavity | Function |
|--------|-------------|--------|--------------------|
| 1 | ..... | 4 | Power (15), sensor |
| 2 | ..... | 5 | Signal, sensor |
| 3 | Power (58d) | 6 | Ground (31) |

1.9 Brake booster pressure sensor -G294-

4-pin connector -T4db-

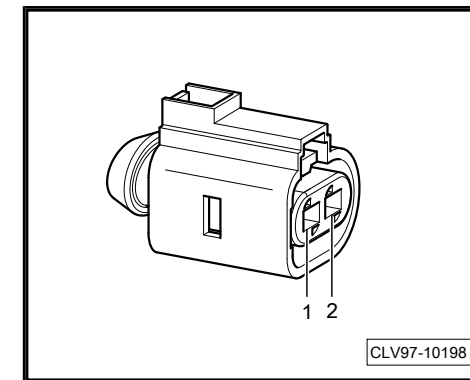


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Ground, sensor | 3 | 5 V, sensor |
| 2 | ..... | 4 | Signal, sensor |

1 Conn. Views ACCESS

1.1 Access/start authorization antenna in rear bumper -R136-

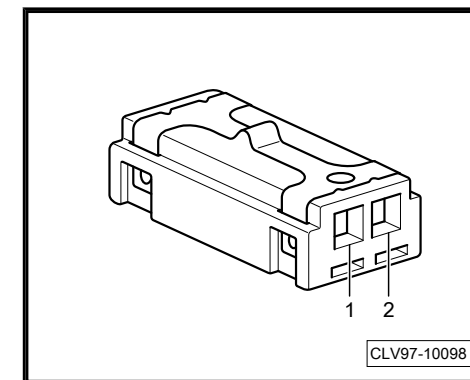
Double connector -T2fv-



| Cavity | Function |
|--------|-----------|
| 1 | Antenna + |
| 2 | Antenna - |

1.2 Access/start authorization antenna in luggage compartment -R137-

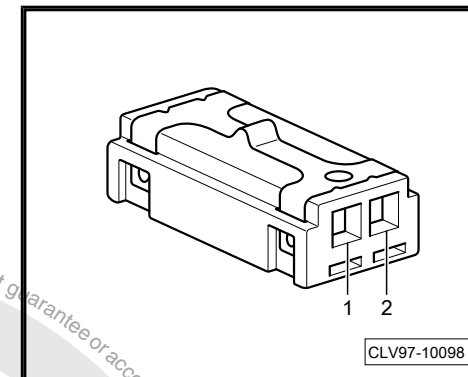
Double connector -T2fu-



| Cavity | Function |
|--------|-----------|
| 1 | Antenna + |
| 2 | Antenna - |

1.3 Access/start authorization antenna 1 in vehicle interior -R138-

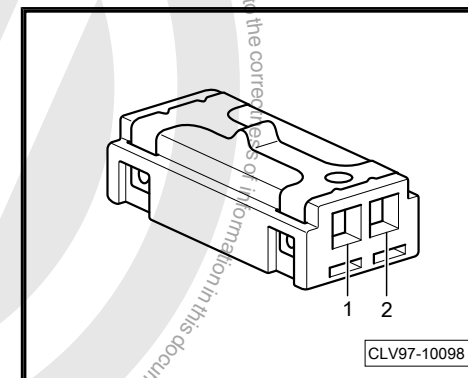
Double connector -T2fs-



| Cavity | Function |
|--------|-----------|
| 1 | Antenna + |
| 2 | Antenna - |

1.4 Access/start authorization antenna 2 in vehicle interior -R139-

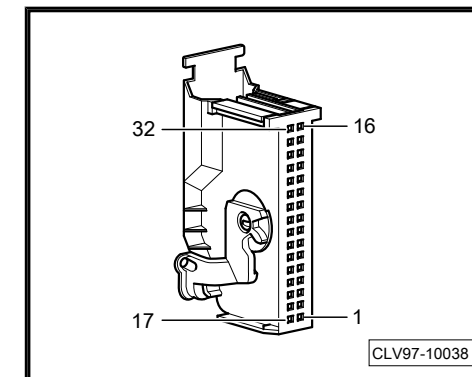
Double connector -T2ft-



| Cavity | Function |
|--------|-----------|
| 1 | Antenna + |
| 2 | Antenna - |

1.5 Access/start authorization control module -J518-

32-pin connector -T32e-

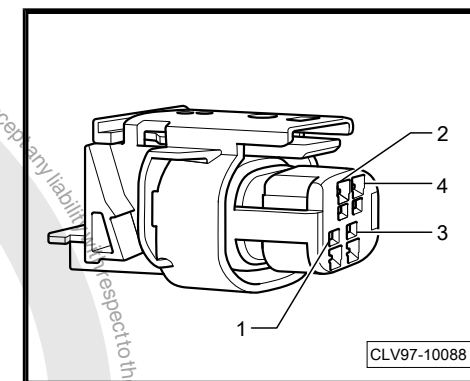


| Cavity | Function | Cavity | Function |
|--------|---|--------|----------------------------------|
| 1 | ... | 17 | Ground, module |
| 2 | ... | 18 | Antenna, interior 2 + |
| 3 | Battery, module | 19 | Antenna, interior 1+ |
| 4 | ... | 20 | Antenna, rear bumper + |
| 5 | Passenger door touch sensor input | 21 | Antenna, passenger door + |
| 6 | ... | 22 | Antenna, luggage compartment + |
| 7 | ... | 23 | Antenna, driver door + |
| 8 | ... | 24 | Antenna, driver door - |
| 9 | Driver door touch sensor input | 25 | Antenna, luggage compartment - |
| 10 | Output to Vehicle electrical system control module (J519) | 26 | Antenna, passenger door - |
| 11 | ... | 27 | Antenna, rear bumper - |
| 12 | ... | 28 | Antenna, interior 1 - |
| 13 | ... | 29 | Antenna, interior 2 - |
| 14 | ... | 30 | Start system button (E378) input |
| 15 | ... | 31 | ... |
| 16 | CAN Low | 32 | CAN High |

1.6 Driver exterior door handle touch sensor -G415-

Driver access/start authorization antenna -R134-

4-pin connector -T4ka-

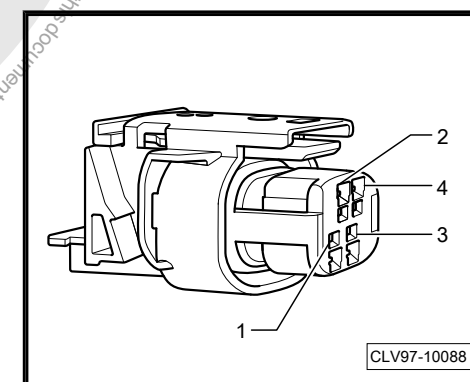


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Antenna - | 3 | Signal, sensor |
| 2 | Ground, sensor | 4 | Antenna + |

1.7 Front passenger exterior door handle touch sensor -G416-

Front passenger access/start authorization antenna -R135-

4-pin connector -T4kb-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Antenna - | 3 | Signal, sensor |
| 2 | Ground, sensor | 4 | Antenna + |

1 Conn. Views Airbag

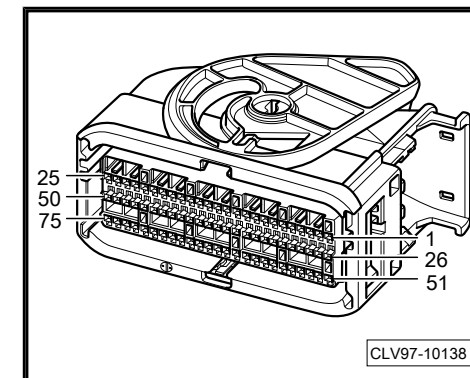
1.1 Airbag control module -J234-

♦ ⇒ "1.1.1 75-pin", page 1

♦ ⇒ "1.1.2 100-pin", page 3

1.1.1 75-pin

75-pin connector -T75-

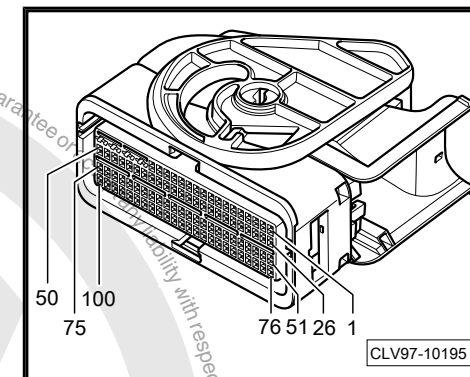


| Cavity | Function | Cavity | Function |
|--------|---------------------------------------|--------|---|
| 1 | Power supply 15 | 39 | Front airbag stage 2, passenger (+) |
| 2 | .... | 40 | Front airbag stage 2, passenger (-) |
| 3 | Key pin (if equipped) | 41 | Early crash satellite, passenger (-), if equipped |
| 4 | .... | 42 | Knee airbag, passenger (-) |
| 5 | Key pin (if equipped) | 43 | Knee airbag, passenger (+) |
| 6 | .... | 44 | Side airbag, passenger (+) |
| 7 | Head airbag, passenger (-) | 45 | Side airbag, passenger(-) |
| 8 | Head airbag, passenger (+) | 46 | Early crash satellite, driver (-) (if equipped) |
| 9 | Belt pretensioner, passenger rear (+) | 47 | Belt pretensioner, driver (-) |
| 10 | Belt pretensioner, passenger rear (-) | 48 | Belt pretensioner, driver (+) |
| 11 | .... | 49 | Belt pretensioner, passenger (+) |
| 12 | Belt pretensioner, driver rear (-) | 50 | Belt pretensioner, passenger (-) |
| 13 | Belt pretensioner, driver rear (+) | 51 | Ground 31 |
| 14 | Head airbag, driver (+) | 52 | Battery disconnect |
| 15 | Head airbag, driver (-) | 53 | Crash output (if equipped) |
| 16 | .... | 54 | .... |

| Cavity | Function | Cavity | Function |
|--------|-------------------------------------|--------|---|
| 17 | Front airbag stage 1, passenger (-) | 55 | Buckle switch, driver |
| 18 | Front airbag stage 1, passenger (+) | 56 | Occupant classification, passenger |
| 19 | Side airbag, driver (+) | 57 | Buckle switch, passenger |
| 20 | Side airbag, driver (-) | 58 | ..... |
| 21 | .... | 59 | Deactivation switch, passenger |
| 22 | Front airbag stage 1, driver (-) | 60 | Deactivation switch LED, passenger |
| 23 | Front airbag stage 1, driver (+) | 61 | Seat position sensor, driver |
| 24 | Knee airbag, driver (+) | 62 | Side airbag satellite, passenger rear (-) if equipped |
| 25 | Knee airbag, driver (-) | 63 | Battery interruption |
| 26 | Power supply 15 | 64 | Side airbag satellite, passenger (+) if equipped |
| 27 | Belt force limiter driver (+) | 65 | Side airbag satellite, driver (+) if equipped |
| 28 | Belt force limiter driver (-) | 66 | Side airbag satellite, driver rear (-) |
| 29 | .... | 67 | Early crash satellite, passenger (+), if equipped |
| 30 | ..... | 68 | Early crash satellite, driver (+) if equipped |
| 31 | ..... | 69 | Side airbag satellite, driver front (-) if equipped |
| 32 | Side airbag, driver rear (-) | 70 | Side airbag satellite, driver front (+) if equipped |
| 33 | Side airbag, driver rear (+) | 71 | Side airbag satellite, passenger front (+) if equipped |
| 34 | Side airbag, passenger rear (+) | 72 | Side airbag satellite, passenger front (-), if equipped |
| 35 | Side airbag, passenger rear (-) | 73 | CAN shielding |
| 36 | ..... | 74 | CAN-BUS high |
| 37 | Front airbag stage 2, driver (-) | 75 | CAN-BUS low |
| 38 | Front airbag stage 2, driver (+) | | |

1.1.2 100-pin

100-pin connector -T100-



| Cavity | Function | Cavity | Function | Cavity | Function | Cavity | Function |
|--------|------------------|--------|---|--------|--------------------------|--------|--|
| 1 | ... | 26 | ... | 51 | Battery (+) (15) | 76 | Battery (+) (15) |
| 2 | Signal SPP | 27 | ... | 52 | ... | 77 | ... |
| 3 | ... | 28 | Signal, BSdD | 53 | LIN Bus Diag | 78 | Ground (31) |
| 4 | ... | 29 | ... | 54 | Power | 79 | ... |
| 5 | ... | 30 | ... | 55 | ... | 80 | LIN Bus |
| 6 | ... | 31 | Signal (-), driver airbag igniter 1 | 56 | ... | 81 | Passenger occupant lamp off |
| 7 | ... | 32 | Signal (+), driver airbag igniter 1 | 57 | ... | 82 | ... |
| 8 | ... | 33 | Signal (+), front passenger airbag igniter 1 | 58 | ... | 83 | ... |
| 9 | ... | 34 | Signal (-), front passenger airbag igniter 1 | 59 | ... | 84 | ... |
| 10 | Signal BFLfP (-) | 35 | Signal (-), driver airbag igniter 2 | 60 | Battery (-), hybrid only | 85 | ... |
| 11 | Signal BFLfP (+) | 36 | Signal (+), driver airbag igniter 2 | 61 | Battery (+), hybrid only | 86 | Signal (-), driver front airbag crash sensor |
| 12 | Signal BFLfD (-) | 37 | Signal (+), front passenger airbag igniter 2 | 62 | ... | 87 | Signal (+), driver front airbag crash sensor |
| 13 | Signal BFLfD (+) | 38 | Signal (-), front passenger airbag igniter 2 | 63 | ... | 88 | Signal (-), front passenger side airbag crash sensor |
| 14 | ... | 39 | Signal (-) driver seat belt tensioner igniter 1 | 64 | ... | 89 | Signal (+), front passenger side airbag crash sensor |
| 15 | ... | 40 | Signal (+) driver seat belt tensioner igniter 1 | 65 | ... | 90 | Signal (-), front passenger side rear side airbag crash sensor |
| 16 | ... | 41 | Signal (+), front passenger seat belt tensioner igniter 1 | 66 | ... | 91 | Signal (+), front passenger side rear side airbag crash sensor |

| Cavity | Function | Cavity | Function | Cavity | Function | Cavity | Function |
|--------|----------|--------|---|--------|--|--------|---|
| 17 | ... | 42 | Signal (-), front passenger seat belt tensioner igniter 1 | 67 | ... | 92 | Signal (-), driver side airbag crash sensor |
| 18 | ... | 43 | ... | 68 | Signal (-), driver airbag igniter 1 | 93 | Signal (+), driver side airbag crash sensor |
| 19 | ... | 44 | ... | 69 | Signal (+), driver airbag igniter 1 | 94 | Signal, ECSD (-) |
| 20 | ... | 45 | ... | 70 | Signal (-), front passenger belt force limiter | 95 | Signal, ECSD (+) |
| 21 | ... | 46 | ... | 71 | Signal (+), front passenger belt force limiter | 96 | Signal, ECSP (-) |
| 22 | ... | 47 | Signal (-), driver knee airbag igniter | 72 | Signal (-), driver belt force limiter | 97 | Signal, ECSP (+) |
| 23 | ... | 48 | Signal (+), driver knee airbag igniter | 73 | Signal (+), driver belt force limiter | 98 | ... |
| 24 | ... | 49 | Signal (-), passenger airbag | 74 | PAaV+ | 99 | Signal, CAN-H |
| 25 | ... | 50 | Signal (+), passenger airbag | 75 | PAaV- | 100 | Signal, CAN-L |

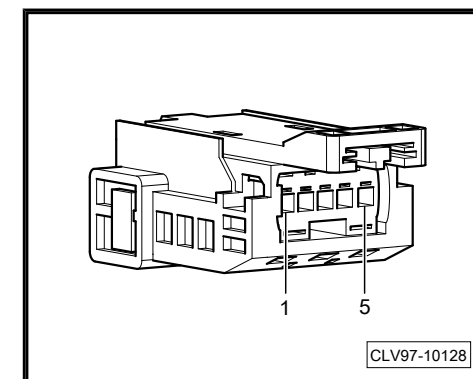
1.2 Front passenger airbag igniter 1 -N131-

Front passenger airbag igniter 2 -N132-

- ♦ ⇒ ["1.2.1 From June 2010", page 4](#)
- ♦ ⇒ ["1.2.2 From March 2010", page 5](#)

1.2.1 From June 2010

5-pin connector -T5x-

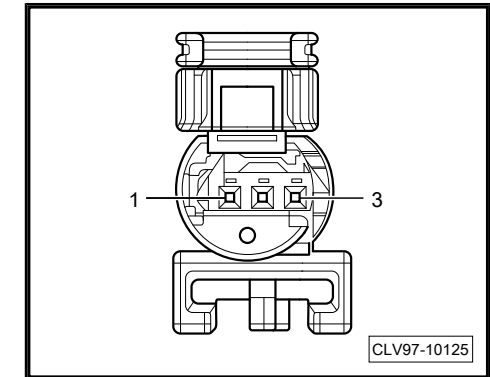


| Cavity | Function | Cavity | Function |
|--------|----------------------|--------|----------------------|
| 1 | Signal (-), sensor 1 | 4 | Signal (-), sensor 2 |
| 2 | Signal (+), sensor 1 | 5 | Signal (+), sensor 2 |

| Cavity | Function | Cavity | Function |
|--------|---------------------------|--------|----------|
| 3 | Ground, sensor (optional) | | |

1.2.2 From March 2010

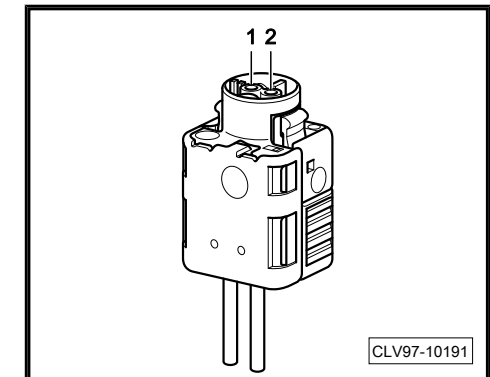
3-pin connector -T3q-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |
| 3 | Ground, sensor |

1.3 Driver head curtain airbag igniter -N251-

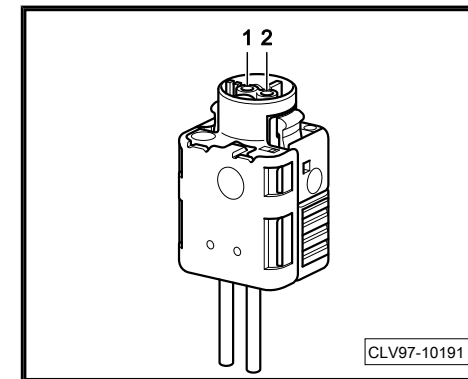
Double connector -T2ej-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |

1.4 Front passenger head curtain airbag igniter -N252-

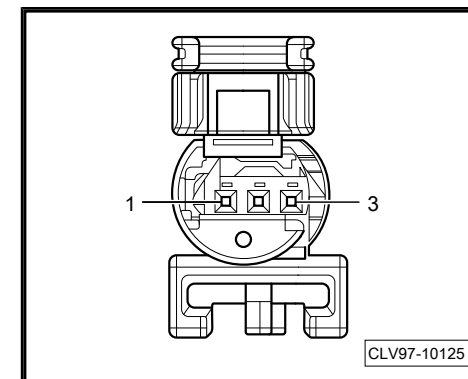
Double connector -T2ek-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |

1.5 Left rear thorax airbag igniter -N201-

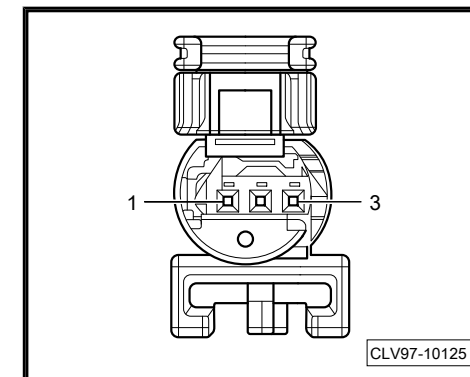
3-pin connector -T3s-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |
| 3 | Ground, sensor |

1.6 Right rear thorax airbag igniter -N202-

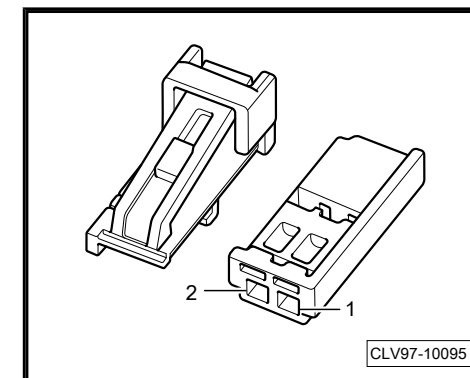
3-pin connector -T3u-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |
| 3 | Ground, sensor |

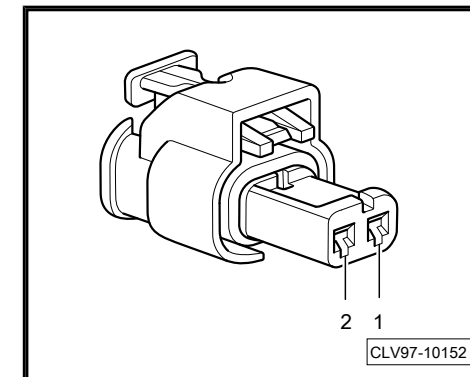
1.7 Front passenger airbag -disabled- indicator lamp -K145-

Double connector -T2be-



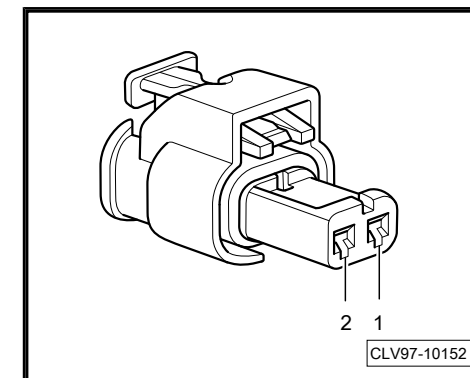
| Cavity | Function |
|--------|--------------------|
| 1 | Power (15), sensor |
| 2 | Signal (-), sensor |

**1.8 Left rear thorax airbag crash sensor
-G256-**



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

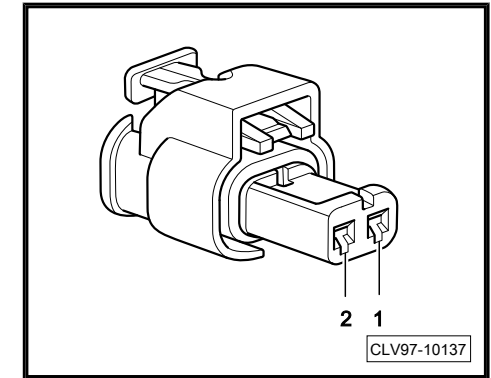
**1.9 Right rear thorax airbag crash sensor
-G257-**



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.10 Driver front airbag crash sensor -G283-

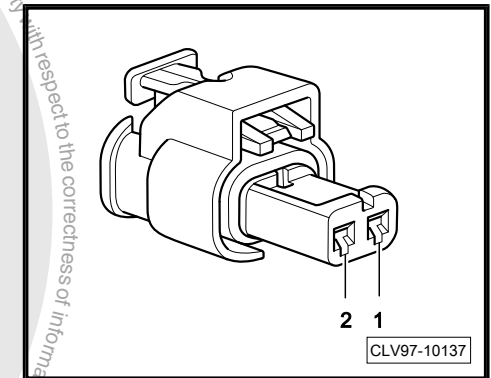
Double connector -T2fg-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.11 Front passenger front airbag crash sensor -G284-

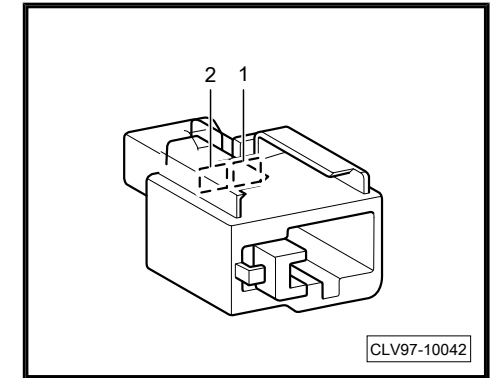
Double connector -T2fh-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.12 Driver seat belt switch -E24-

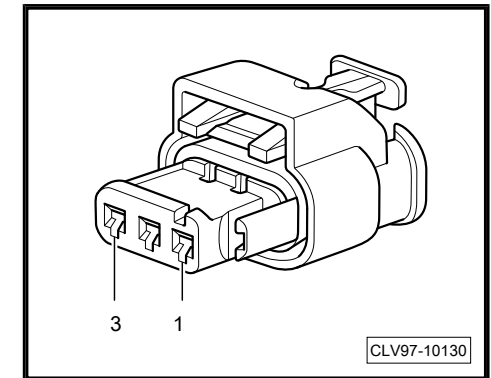
Double connector -T2q-



CLV97-10042

| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Ground, sensor |

1.13 Passenger occupant detection system control module -J706-

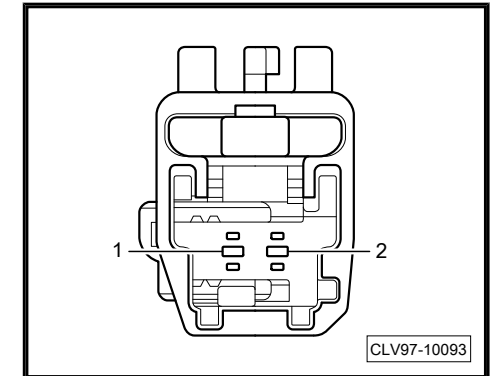


CLV97-10130

| Cavity | Function |
|--------|--------------------|
| 1 | Power (15), sensor |
| 2 | Signal (+), sensor |
| 3 | Signal (-), sensor |

1.14 Front passenger seat belt switch -E25-

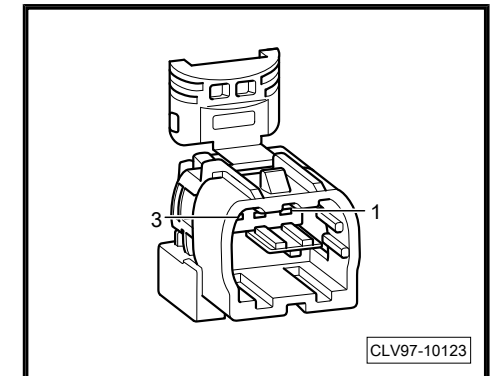
Double connector -T2be-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Ground, sensor |

1.15 Front passenger thorax airbag igniter -N200-

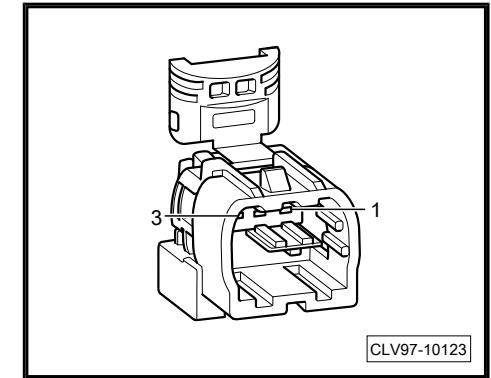
3-pin connector -T3I-



| Cavity | Function |
|--------|---------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |
| 3 | Ground (31), sensor |

1.16 Driver thorax airbag igniter -N199-

3-pin connector -T3k-

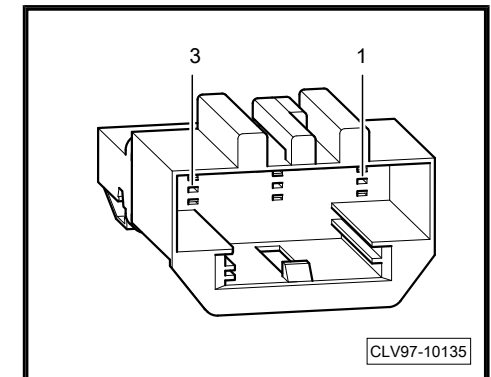


| Cavity | Function |
|--------|---------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |
| 3 | Ground (31), sensor |

1.17 Driver seat position sensor -G553-

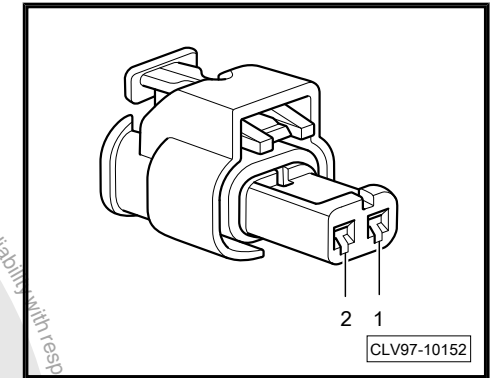
Front passenger seat position sensor -G554-

3-pin connector -T3ar-



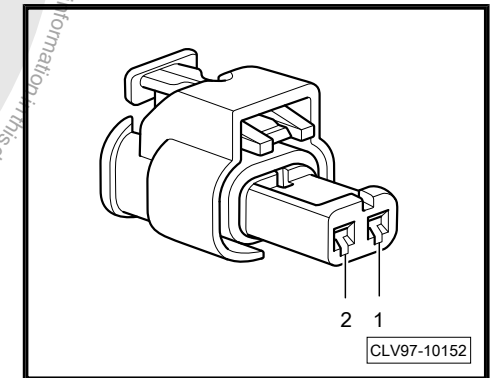
| Cavity | Function |
|--------|---------------------|
| 1 | Ground (31), sensor |
| 2 | Signal (+), sensor |
| 3 | --- |

1.18 Driver side airbag crash sensor -G179-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

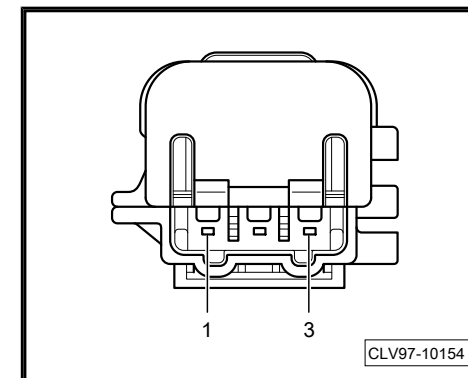
1.19 Front passenger side airbag crash sensor -G180-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.20 Left rear seat belt tensioner igniter -N196-

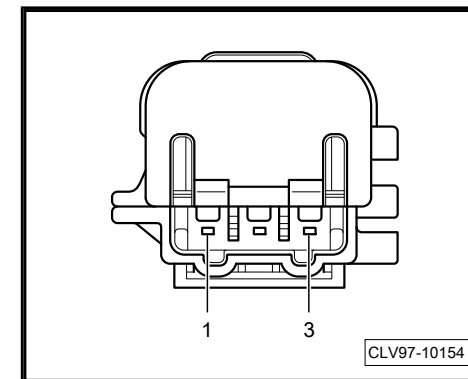
3-pin connector -T3r-



| Cavity | Function |
|--------|---------------------|
| 1 | Ground (31), sensor |
| 2 | Signal (+), sensor |
| 3 | ---- |

1.21 Right rear seat belt tensioner igniter -N197-

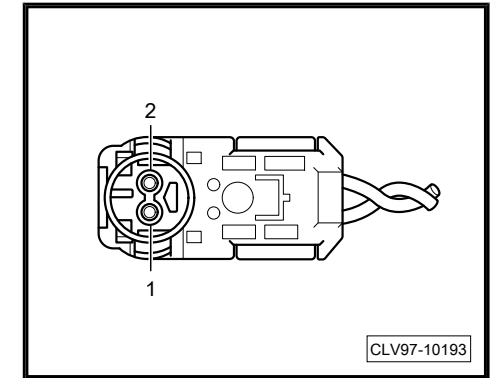
3-pin connector -T3t-



| Cavity | Function |
|--------|---------------------|
| 1 | Ground (31), sensor |
| 2 | Signal (+), sensor |
| 3 | ---- |

1.22 Front passenger seat belt tensioner igniter 1 -N154-

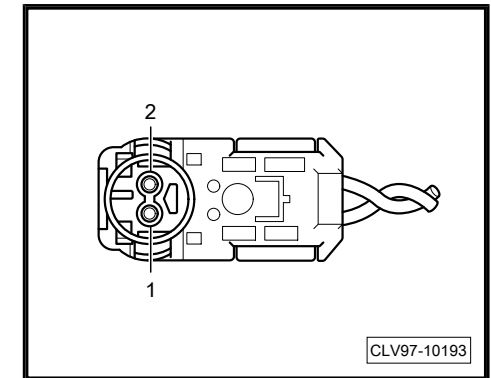
Double connector -T2gb-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |

1.23 Driver seat belt tensioner igniter 1 -N153-

Double connector -T2gf-



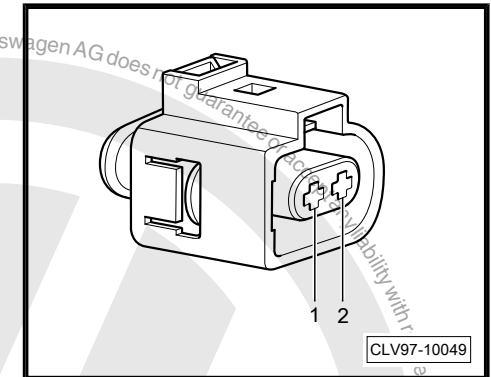
| Cavity | Function |
|--------|--------------------|
| 1 | Signal (-), sensor |
| 2 | Signal (+), sensor |

1 Conn. Views Engine

1.1 EVAP canister purge regulator valve 1 -N80-

All engines

Double connector -T2dt-

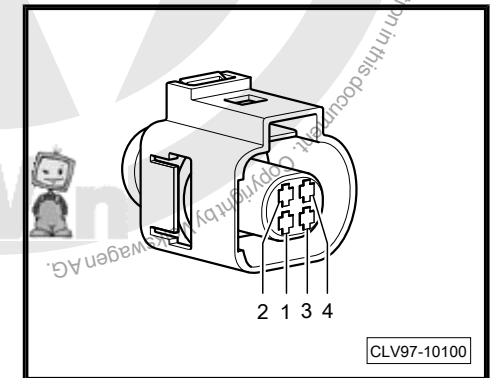


| Cavity | Function |
|--------|----------------|
| 1 | Power, sensor |
| 2 | Ground, sensor |

1.2 Brake lamp switch -F-

All engines

4-pin connector -T4al-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Signal, output | 3 | Signal, output |

| Cavity | Function | Cavity | Function |
|--------|----------------|--------|---------------|
| 2 | Ground, sensor | 4 | Power, sensor |

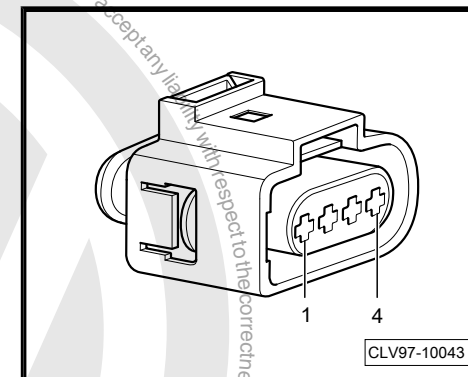
1.3 Intake manifold sensor -GX9-

Manifold absolute pressure sensor -G71-

Intake air temperature sensor -G42-

Gasoline engines

4-pin connector -T4bf-



| Cavity | Function | Cavity | Function |
|--------|----------------------------|--------|----------------|
| 1 | Ground | 3 | Power, sensor |
| 2 | Signal, temperature sensor | 4 | Signal, sensor |

1.4 Throttle valve control module -GX3-

Includes:

Throttle valve control module -J338-

Throttle position sensor -G69-

EPC throttle drive -G186-

EPC throttle drive angle sensor 1 -G187-

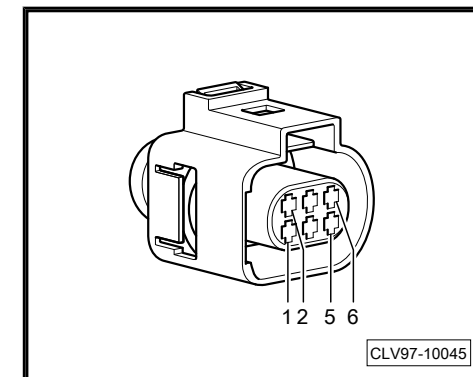
EPC throttle drive angle sensor 2 -G188-

◆ ⇒ [“1.4.1 Gasoline engines”, page 3](#)

◆ ⇒ [“1.4.2 TDI engine”, page 3](#)

1.4.1 Gasoline engines

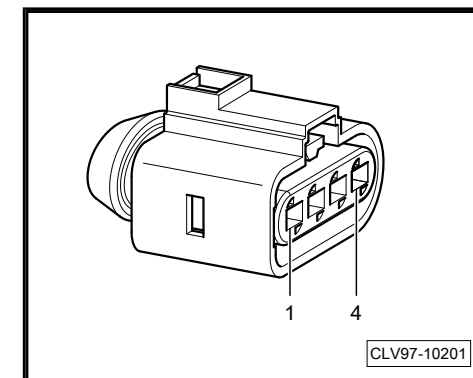
6-pin connector -T6x-



| Cavity | Function | Cavity | Function |
|--------|--------------------------|--------|--------------------------|
| 1 | Signal monitor, sensor 1 | 4 | Signal monitor, sensor 2 |
| 2 | Signal (+), sensor 1+2 | 5 | Voltage Supply, motor |
| 3 | Ground, motor | 6 | Signal (-), sensor 1+2 |

1.4.2 TDI engine

4-pin connector -T4r-

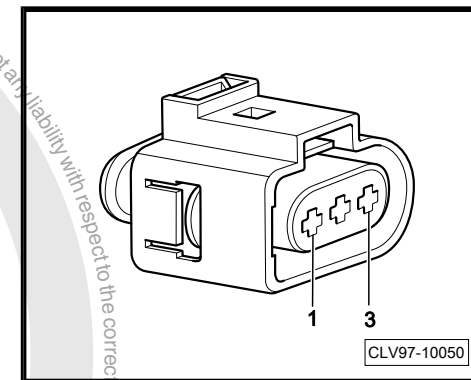


| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|-----------------------|
| 1 | Ground, sensor | 3 | PWM signal, sensor |
| 2 | Voltage supply, sensor | 4 | Signal status, sensor |

1.5 Camshaft position sensor -G40-

All engines

3-pin connector -T3b-



| Cavity | Function |
|--------|----------------|
| 1 | 5 Volt, Sensor |
| 2 | Signal, Sensor |
| 3 | Ground, sensor |

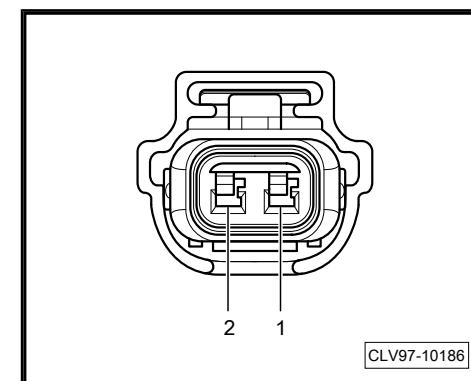
1.6 Cylinder 1 fuel injector -N30-

♦ ⇒ ["1.6.1 Gasoline engines", page 4](#)

♦ ⇒ ["1.6.2 TDI engine", page 5](#)

1.6.1 Gasoline engines

Double connector -T2cg-

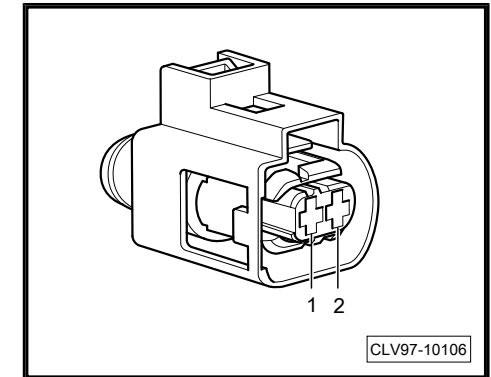


| Cavity | Function |
|--------|----------|
| 1 | Power |

| Cavity | Function |
|--------|----------|
| 2 | Ground |

1.6.2 TDI engine

Double connector -T2cg-



| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

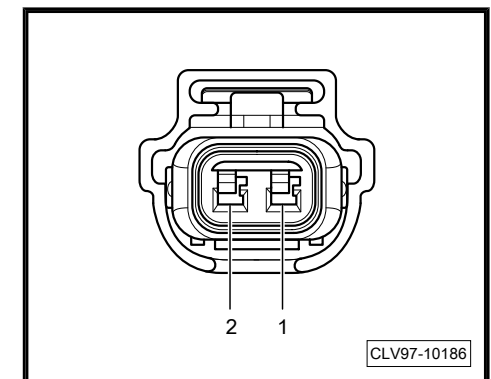
1.7 Cylinder 2 fuel injector -N31-

◆ ⇒ ["1.7.1 Gasoline engines", page 5](#)

◆ ⇒ ["1.7.2 TDI engine", page 6](#)

1.7.1 Gasoline engines

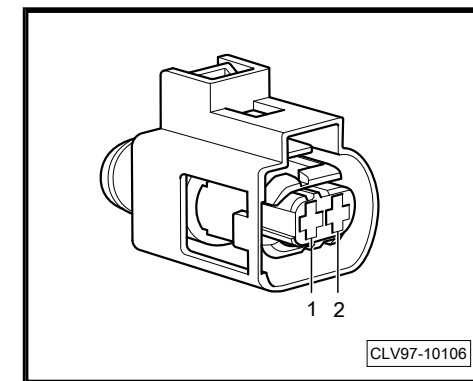
Double connector -T2ch-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.7.2 TDI engine

Double connector -T2ch-



| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

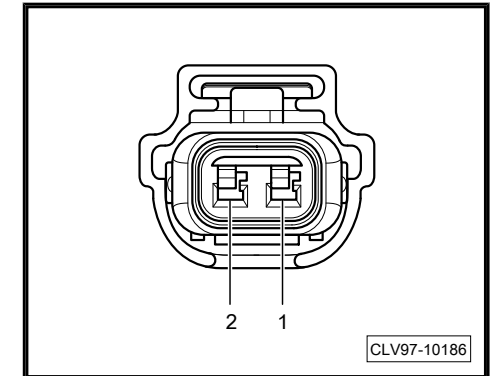
1.8 Cylinder 3 fuel injector -N32-

◆ ⇒ ["1.8.1 Gasoline engines", page 7](#)

◆ ⇒ ["1.8.2 TDI engine", page 7](#)

1.8.1 Gasoline engines

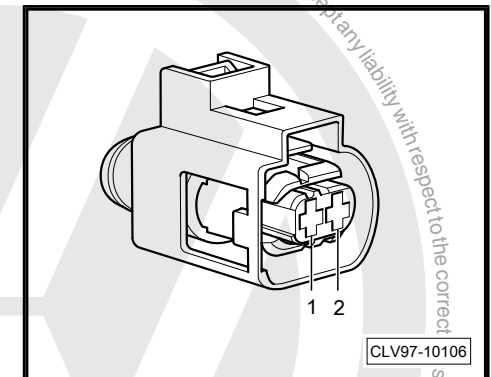
Double connector -T2ci-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.8.2 TDI engine

Double connector -T2ci-



| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

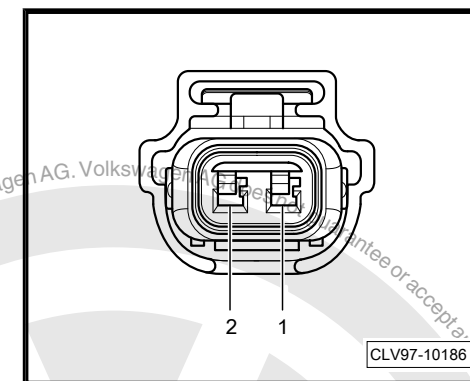
1.9 Cylinder 4 fuel injector -N33-

◆ ⇒ ["1.9.1 Gasoline engines", page 8](#)

♦ ⇒ "1.9.2 TDI engine", page 8

1.9.1 Gasoline engines

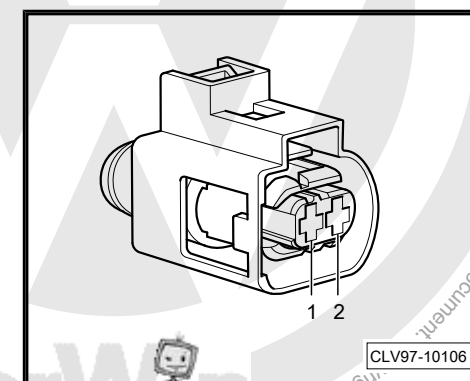
Double connector -T2cj-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.9.2 TDI engine

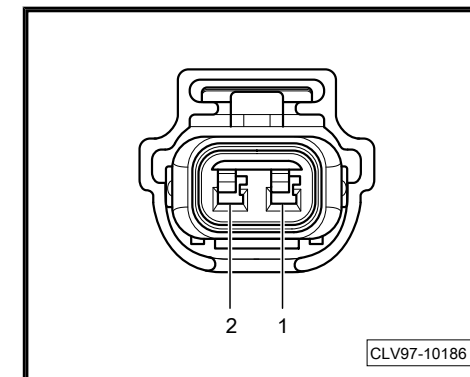
Double connector -T2cj-



| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

1.10 Cylinder 5 fuel injector -N83-

Double connector -T2ck-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

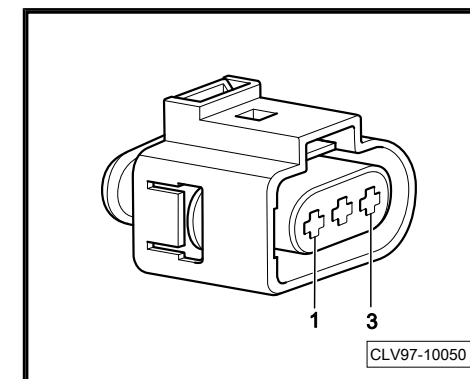
1.11 Engine speed sensor -G28-

♦ ⇒ [“1.11.1 2.0L CCTA/CBFA TFSI only”, page 9](#)

♦ ⇒ [“1.11.2 All other engines”, page 10](#)

1.11.1 2.0L CCTA/CBFA TFSI only

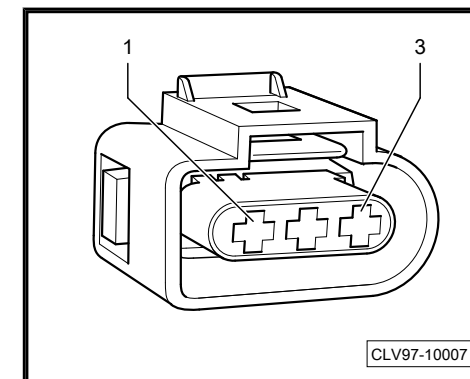
Double connector -T2h-



| Cavity | Function |
|--------|----------------|
| 1 | 5 volt, sensor |
| 2 | Signal, sensor |

1.11.2 All other engines

3-pin connector -T3ag- / 3-pin connector -T3v-



| Cavity | Function |
|--------|----------------|
| 1 | 5 volt, sensor |
| 2 | Signal, sensor |
| 3 | Ground, sensor |

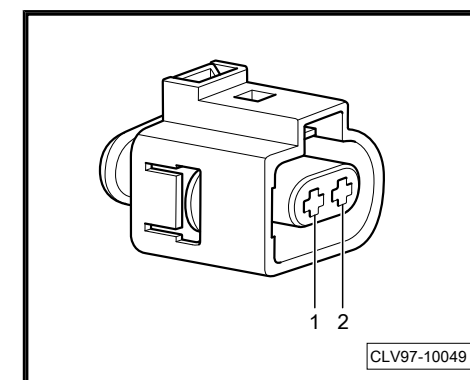
1.12 Positive crankcase ventilation heating element -N79-

⇒ ["1.12.1 TDI and 2.0L gasoline engines", page 10](#)

⇒ ["1.12.2 1.4L engine", page 11](#)

1.12.1 TDI and 2.0L gasoline engines

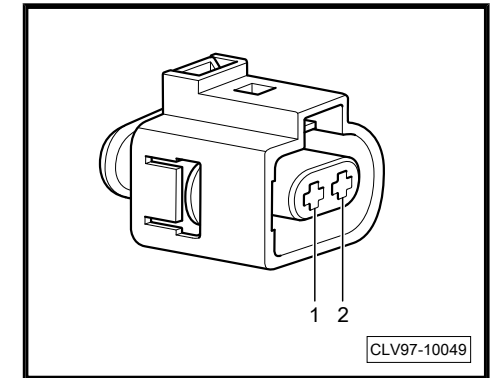
2-pin connector -T2fc-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.12.2 1.4L engine

2-pin connector -T2kge-



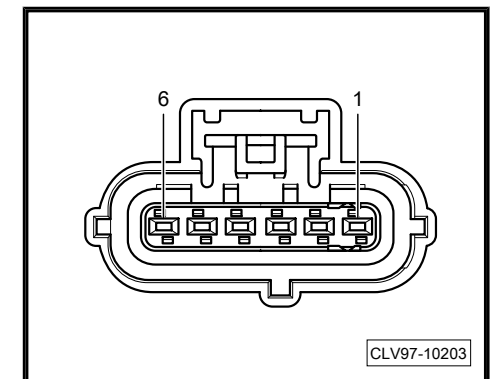
| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.13 Accelerator pedal module -GX2-

Accelerator pedal position sensor 2 -G185-

Accelerator pedal position sensor -G79-

6-pin connector -T6h-



| Cavity | Function | Cavity | Function |
|--------|------------------|--------|------------------|
| 1 | 5 volt, sensor 2 | 4 | Signal, sensor 1 |
| 2 | 5 volt, sensor 1 | 5 | Ground, sensor 2 |
| 3 | Ground, sensor 1 | 6 | Signal, sensor 2 |

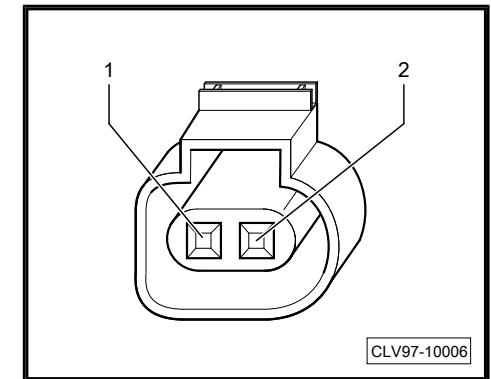
1.14 Knock sensor 1 -G61-

◆ ⇒ ["1.14.1 1.4L/ 1.8L/ 2.0L gasoline engines", page 12](#)

◆ ⇒ ["1.14.2 2.5L engine", page 13](#)

1.14.1 1.4L/ 1.8L/ 2.0L gasoline engines

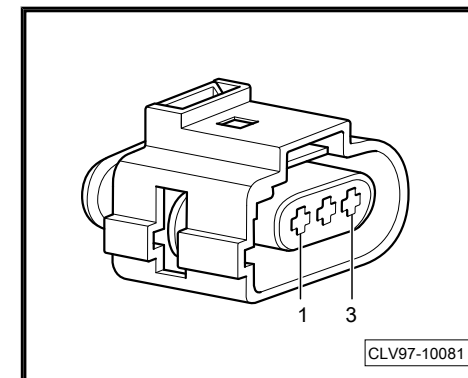
Double connector -T2ex-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.14.2 2.5L engine

3-pin connector -T3ak-

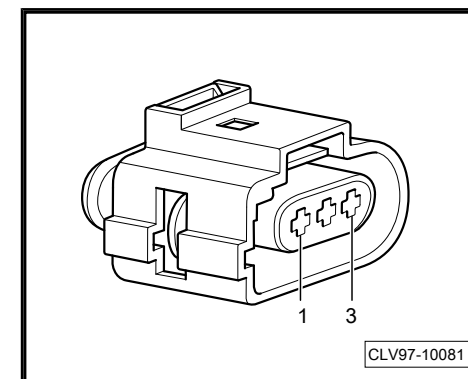


| Cavity | Function |
|--------|-----------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |
| 3 | Shield ground, sensor |

1.15 Knock sensor 2 -G66-

2.5L engine only

3-pin connector -T3y-



| Cavity | Function |
|--------|-----------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |
| 3 | Shield ground, sensor |

1.16 Oxygen sensor 1 after catalytic converter -GX7-

Includes Oxygen sensor after three way catalytic converter -G130-

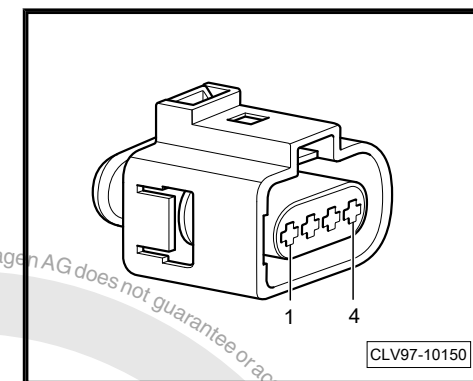
Heater for oxygen sensor 1 after catalytic converter -Z29-

♦ ⇒ ["1.16.1 All gasoline engines", page 14](#)

♦ ⇒ ["1.16.2 TDI engine", page 14](#)

1.16.1 All gasoline engines

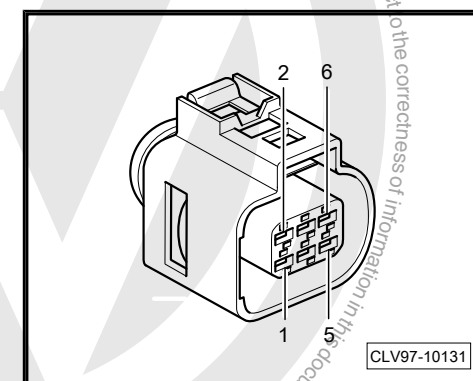
6-pin connector -T4ao-



| Cavity | Function | Cavity | Function |
|--------|---------------------|--------|----------------|
| 1 | Heater, Voltage (+) | 3 | Ground, Sensor |
| 2 | Heater, Ground (-) | 4 | Signal, Sensor |

1.16.2 TDI engine

6-pin connector -T6ao-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------------|
| 1 | Voltage Supply | 4 | Heater, Voltage (H+) |

| Cavity | Function | Cavity | Function |
|--------|----------------------|--------|-----------------------|
| 2 | Ground, Sensor | 5 | Trim Current (RT) |
| 3 | Heater, Ground (H -) | 6 | Voltage, sensor (RE+) |

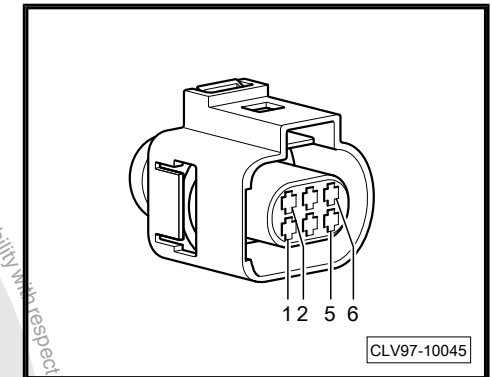
1.17 Oxygen sensor 1 before catalytic converter -GX10-

Heated oxygen sensor -G39- and

Oxygen sensor heater -Z19-

All engines

6-pin connector -T6w-

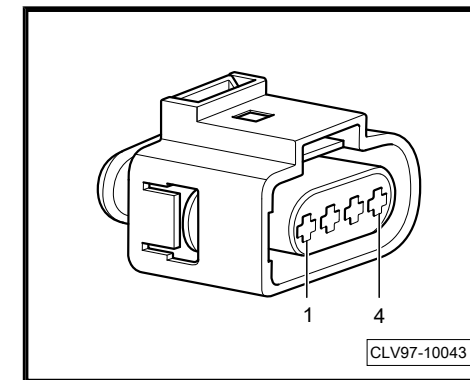


| Cavity | Function | Cavity | Function |
|--------|----------------------|--------|-----------------------|
| 1 | Voltage Supply | 4 | Heater, Voltage (H+) |
| 2 | Ground, Sensor | 5 | Trim Current (RT) |
| 3 | Heater, Ground (H -) | 6 | Voltage, sensor (RE+) |

1.18 Oxygen sensor in bank 1 center three way catalytic converter -G465-

2.5L Gas engine

4-pin connector -T4v-



| Cavity | Function | Cavity | Function |
|--------|---------------------|--------|----------------|
| 1 | Heater, Voltage (+) | 3 | Ground, Sensor |
| 2 | Heater, Ground (-) | 4 | Signal, Sensor |

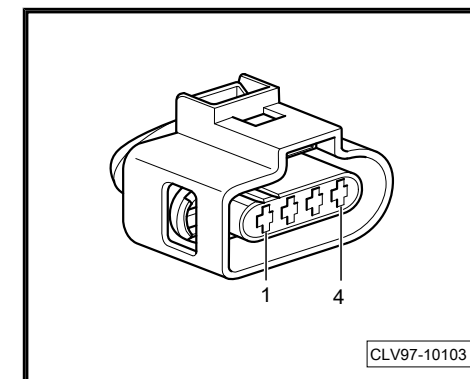
1.19 Ignition coil 1 with power output stage -N70-

♦ ⇒ ["1.19.1 Engine GEN II", page 16](#)

♦ ⇒ ["1.19.2 Engine GEN III", page 17](#)

1.19.1 Engine GEN II

4-pin connector -T4af-

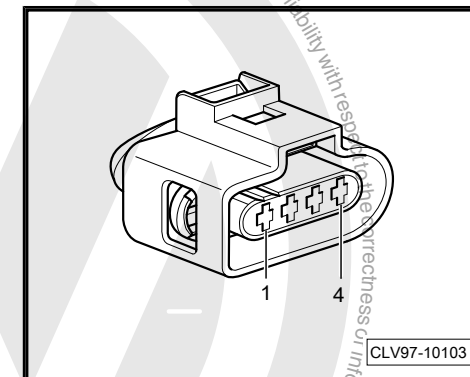


| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------------|
| 1 | Power | 3 | Ground, module |

| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|--------------|
| 2 | Ground, chassis | 4 | Ground, coil |

1.19.2 Engine GEN III

4-pin connector -T4af-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Ground | 3 | Ground, module |
| 2 | Signal, module | 4 | Power (15) |

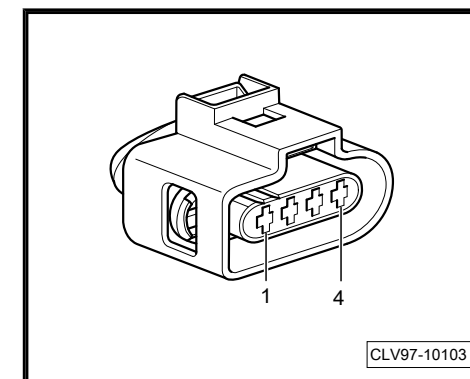
1.20 Ignition coil 2 with power output stage -N127-

♦ ⇒ ["1.20.1 Engine GEN II", page 17](#)

♦ ⇒ ["1.20.2 Engine GEN III", page 18](#)

1.20.1 Engine GEN II

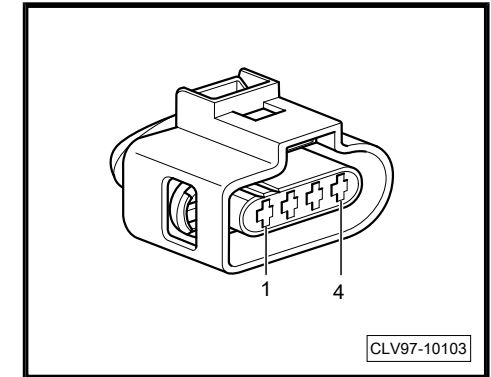
4-pin connector -T4ag-



| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Power | 3 | Ground, module |
| 2 | Ground, chassis | 4 | Ground, coil |

1.20.2 Engine GEN III

4-pin connector -T4ag-



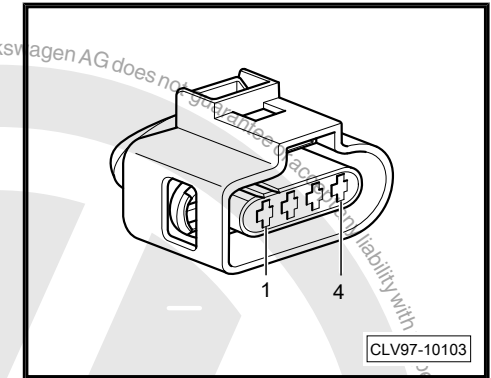
| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Ground | 3 | Ground, module |
| 2 | Signal, module | 4 | Power (15) |

1.21 Ignition coil 3 with power output stage -N291-

- ◆ ⇒ ["1.21.1 Engine GEN II", page 19](#)
- ◆ ⇒ ["1.21.2 Engine GEN III", page 19](#)

1.21.1 Engine GEN II

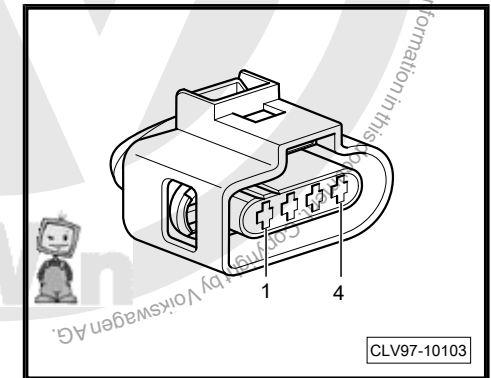
4-pin connector -T4ah-



| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Power | 3 | Ground, module |
| 2 | Ground, chassis | 4 | Ground, coil |

1.21.2 Engine GEN III

4-pin connector -T4ah-

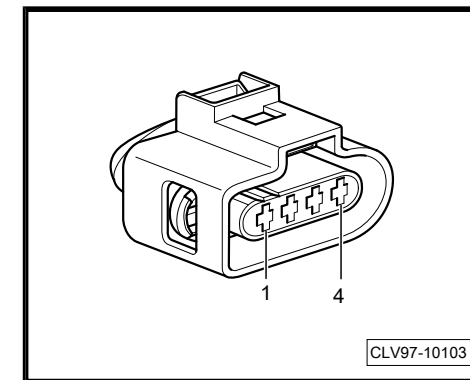


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Ground | 3 | Ground, module |
| 2 | Signal, module | 4 | Power (15) |

1.22 Ignition coil 4 with power output stage -N292-

1.22.1 Engine GEN II

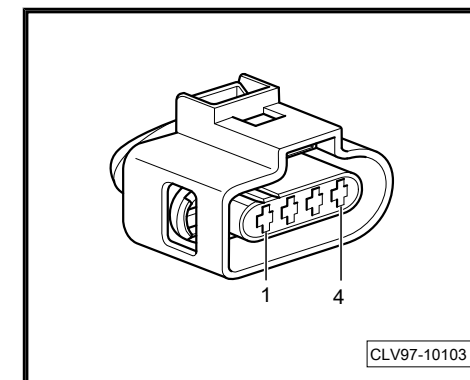
4-pin connector -T4ai-



| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Power | 3 | Ground, module |
| 2 | Ground, chassis | 4 | Ground, coil |

1.22.2 Engine GEN III

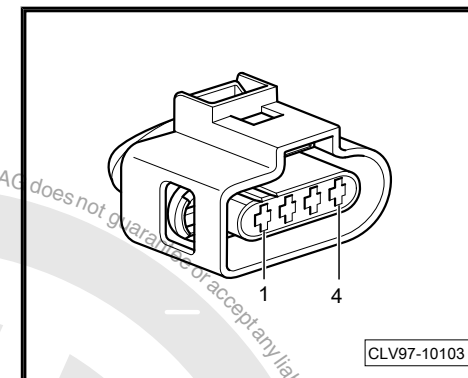
4-pin connector -T4ai-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Ground | 3 | Ground, module |
| 2 | Signal, module | 4 | Power (15) |

1.23 Ignition coil 5 with power output stage -N323-

4-pin connector -T4aj-

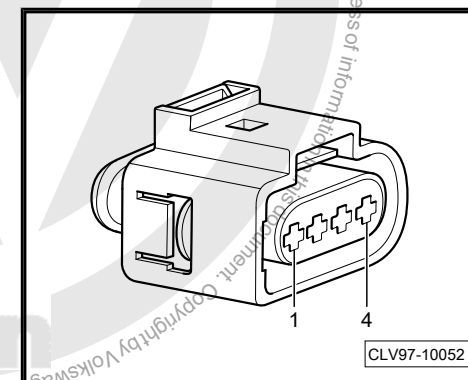


| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Power | 3 | Ground, module |
| 2 | Ground, chassis | 4 | Ground, coil |

1.24 Ignition coil -N152-

2.0L CBPA engine

4-pin connector -T4z-

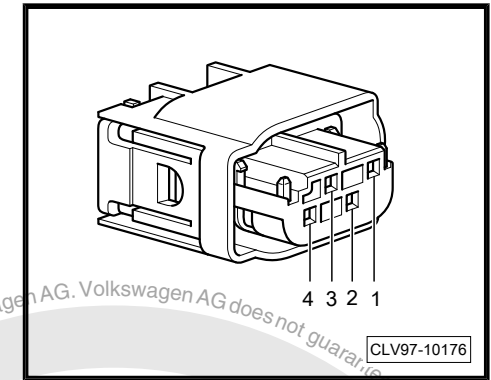


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Signal 1, coil | 3 | Signal 2, coil |
| 2 | Module power | 4 | Module ground |

1.25 Leak detection pump -V144-

Gasoline engines

4-pin connector -T4dp-

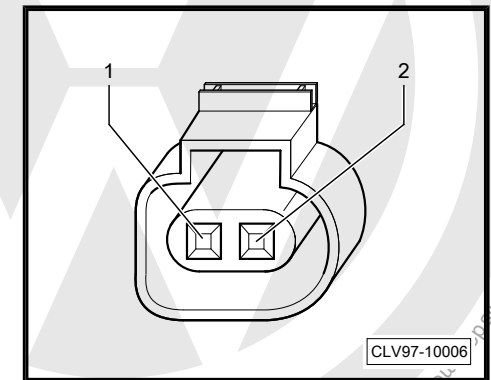


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|------------------|
| 1 | Signal, Sensor | 3 | Signal, Solenoid |
| 2 | Signal, pump | 4 | Power supply |

1.26 Engine coolant temperature sensor -G62-

All engines

Double connector -T2dp-

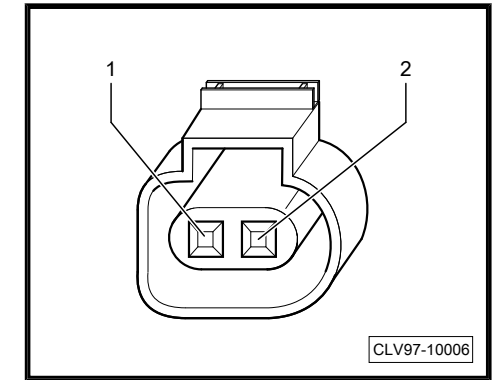


| Cavity | Function |
|--------|-----------------------|
| 1 | Signal input, sensor |
| 2 | Signal output, sensor |

1.27 Engine coolant temperature sensor -G83-

All engines

Double connector -T2r-

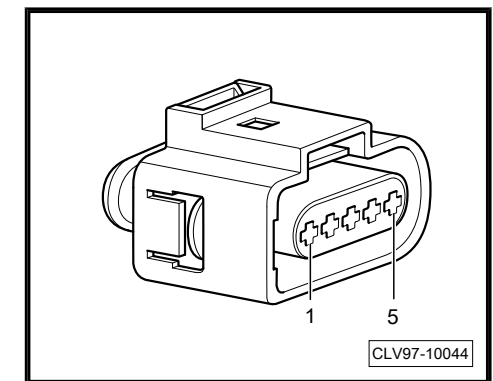


| Cavity | Function |
|--------|-----------------------|
| 1 | Signal input, sensor |
| 2 | Signal output, sensor |

1.28 Clutch position sensor -G476-

All engines

5-pin connector -T5m-

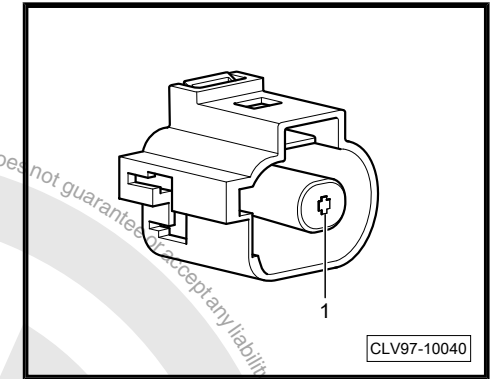


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|-------------------|
| 1 | Ground, sensor | 4 | Signal, Interlock |
| 2 | Signal, GRA | 5 | Power, sensor |
| 3 | ... | | |

1.29 Oil pressure switch -F1-

All engines

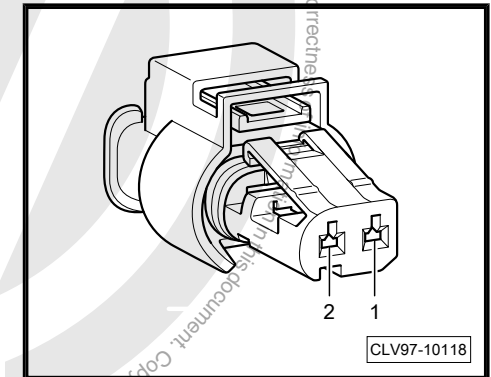
Single connector -T1o-



| Cavity | Function |
|--------|----------------------|
| 1 | Power Supply, Sensor |

1.30 Oil pressure regulation valve -N428-

Double connector -T2dw-

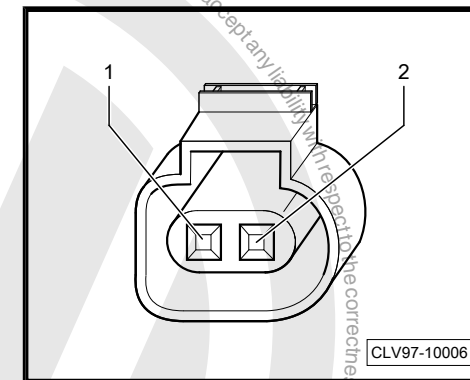


| Cavity | Function |
|--------|----------------------|
| 1 | Ground, sensor |
| 2 | Power Supply, sensor |

1.31 Camshaft adjustment valve 1 -N205-

Gasoline engines

Double connector -T2du-



| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

1.32 Secondary air system -GX24-

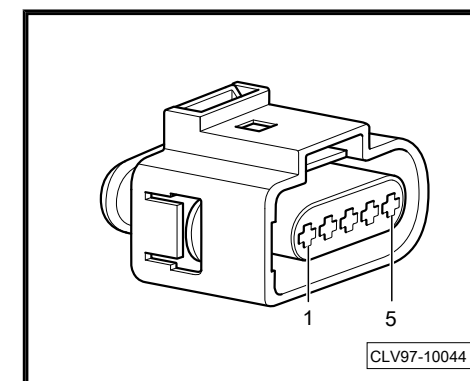
Includes:

Secondary air injection solenoid valve -N112- For 2.0L CBFA, 2.5L CBTA and CBUA engines, refer to [⇒ page 26](#)

Secondary air injection sensor 1 -G609- For 2.0L CBFA, 2.5L CBTA and CBUA engines, refer to [⇒ page 26](#)

Secondary air injection sensor 2 -G610-

5-pin connector -T5d-



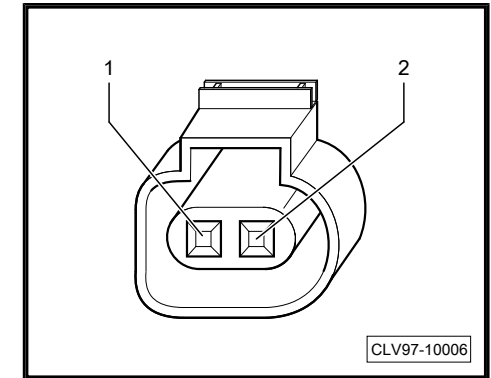
| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------------|
| 1 | Power | 4 | Ground, sensor |

| Cavity | Function | Cavity | Function |
|--------|----------------|--------|---------------|
| 2 | 5 Volts, power | 5 | Ground, valve |
| 3 | Return | | |

1.33 Secondary air injection solenoid valve -N112-

For 2.5L CBTA, CBUA and 2.0L CBFA only. For all other engines refer to ⇒ [page 25](#)

Double connector -T2cl-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.34 Secondary air injection sensor 1 -G609-

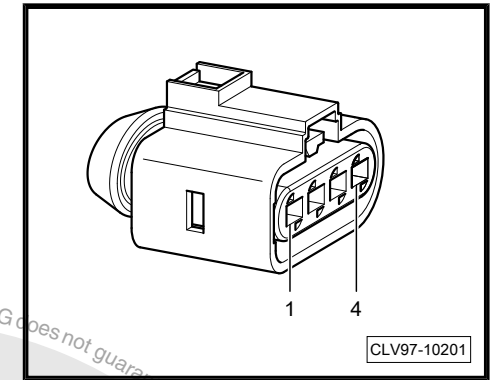
For 2.5L CBTA, CBUA and 2.0L CBFA only. For all others refer to ⇒ [page 25](#)

- ♦ ⇒ ["1.34.1 4-Pin Connector", page 27](#)
- ♦ ⇒ ["1.34.2 3-Pin Connector", page 27](#)

1.34.1 4-Pin Connector

2011 - through early 2012

4-pin connector -T4aw-

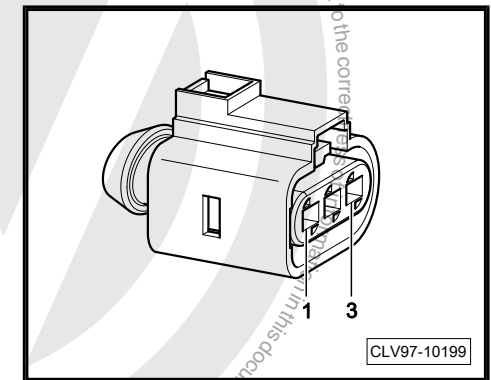


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | Ground, sensor | 3 | Power, sensor |
| 2 | ... | 4 | Signal, sensor |

1.34.2 3-Pin Connector

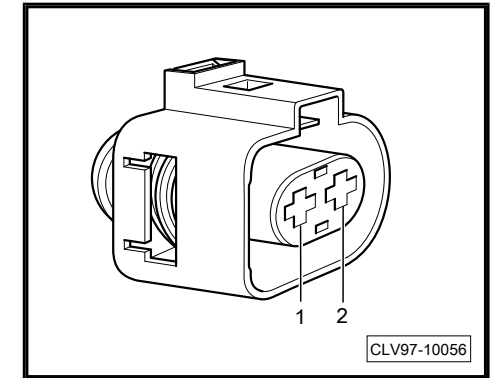
Late 2012 - Forward

3-pin connector -T3ai-



| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |
| 3 | Power, sensor |

1.35 Secondary air injection pump motor -V101-



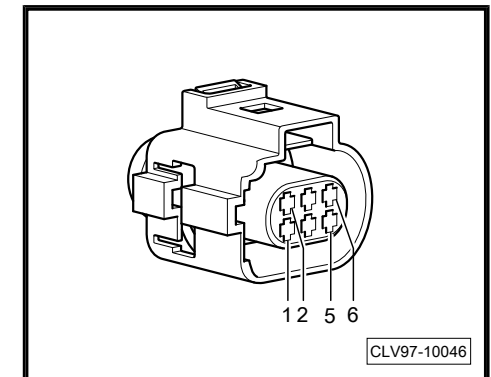
| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

1.36 EGR vacuum regulator solenoid valve -N18-

EGR potentiometer -G212-

TDI engine

6-pin connector -T6y-



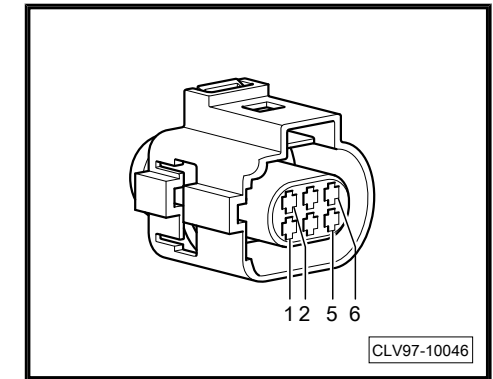
| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|-----------------------|
| 1 | 5 Volts, power | 4 | ... |
| 2 | Solenoid valve, ground | 5 | Potentiometer, signal |
| 3 | Potentiometer, ground | 6 | Solenoid valve, power |

1.37 Valve 2 for EGR -N213-

Exhaust gas recirculation position sensor 2 -G466-

TDI engine

6-pin connector -T6x-



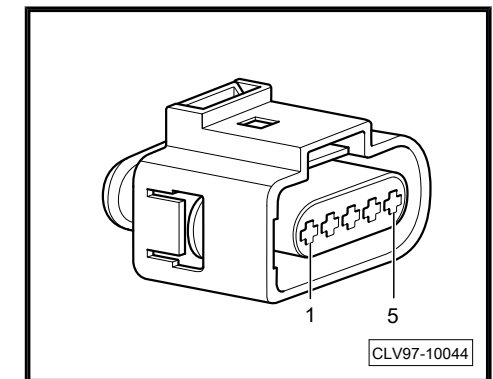
| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|-----------------------|
| 1 | 5 Volts, power | 4 | ... |
| 2 | Solenoid valve, ground | 5 | Potentiometer, signal |
| 3 | Potentiometer, ground | 6 | Solenoid valve, power |

1.38 Intake flap motor -V157-

Intake manifold runner position sensor -G336-

TDI engine

5-pin connector -T5I-



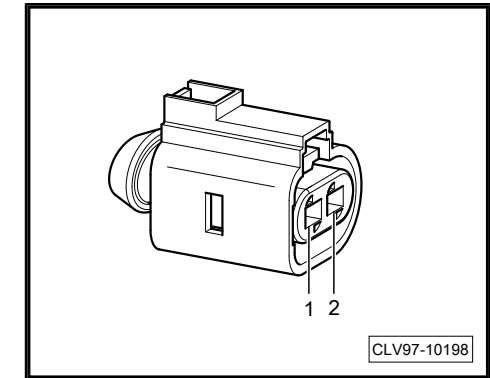
| Cavity | Function | Cavity | Function |
|--------|----------------|--------|------------------------|
| 1 | 5 Volts, power | 4 | Solenoid valve, ground |

| Cavity | Function | Cavity | Function |
|--------|-----------------------|--------|-----------------------|
| 2 | Potentiometer, signal | 5 | Solenoid valve, power |
| 3 | Potentiometer, ground | | |

1.39 EGR temperature sensor -G98-

TDI engine

Double connector -T2ef-

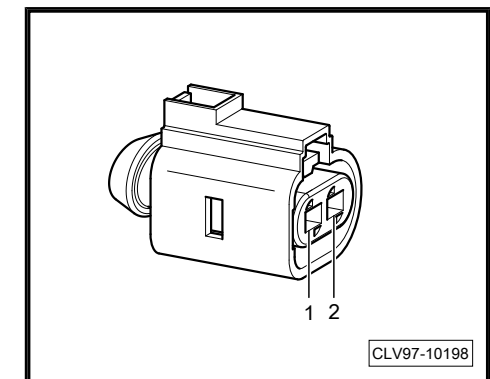


| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Signal + |

1.40 Exhaust gas temperature sensor 1 -G235-

TDI engine

Double connector -T2fe-

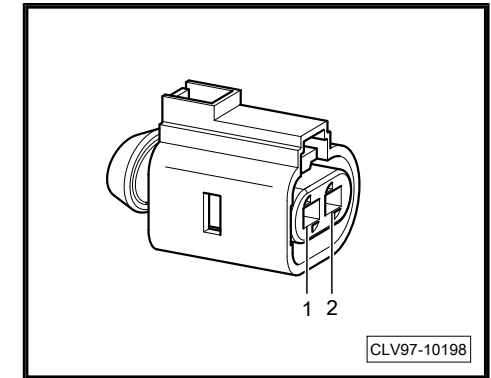


| Cavity | Function |
|--------|--------------|
| 1 | Ground |
| 2 | Signal power |

1.41 Exhaust gas temperature sensor 2 -G448-

TDI engine

Double connector -T2fk-

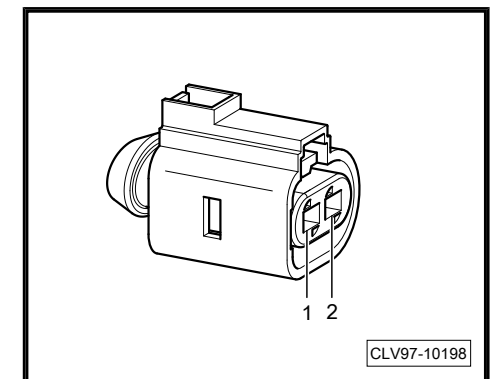


| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.42 Exhaust gas temperature sensor 3 -G495-

TDI engine

Double connector -T2eq-

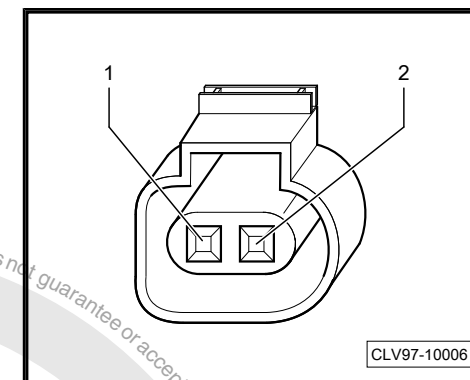


| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.43 Exhaust gas temperature sensor 4 -G648-

TDI engine

Double connector -T2ez-

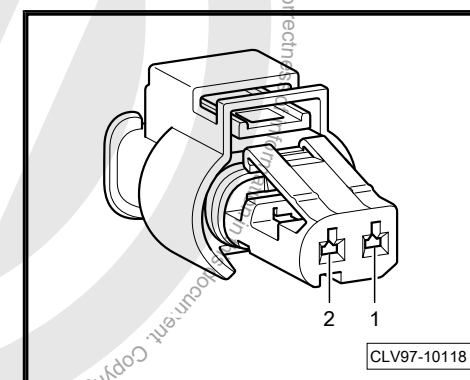


| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Signal + |

1.44 Fuel temperature sensor -G81-

TDI engine

Double connector -T2ey-

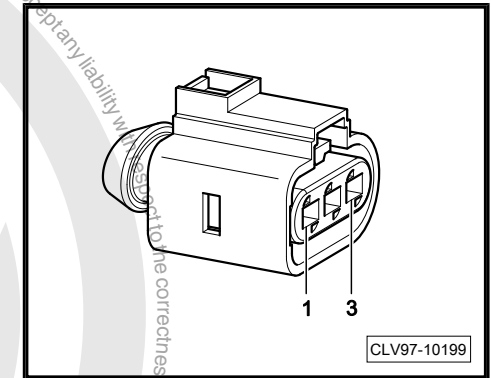


| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |

1.45 Exhaust pressure sensor 1 -G450-

TDI engine

3-pin connector -T3n-

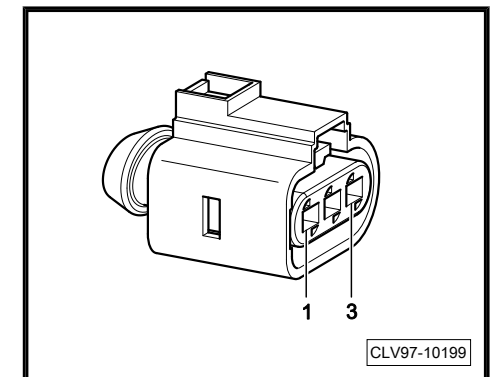


| Cavity | Function |
|--------|----------------|
| 1 | 5 volt, sensor |
| 2 | Ground, sensor |
| 3 | Signal, sensor |

1.46 Differential pressure sensor -G505-

TDI engine

3-pin connector -T3m-



| Cavity | Function |
|--------|----------------|
| 1 | 5 volt, sensor |
| 2 | Ground, sensor |
| 3 | Signal, sensor |

1.47 Charge air pressure sensor -GX26-

Intake air temperature sensor -G42-

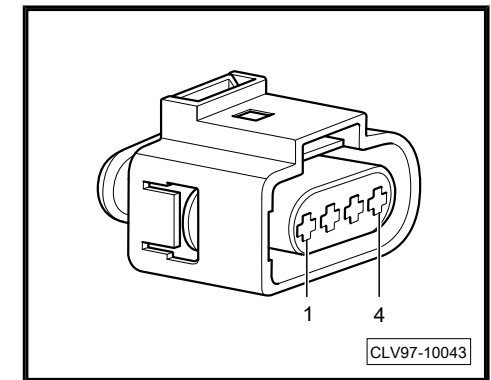
Charge air pressure sensor -G31-

Intake air temperature sensor 2 -G299-

- ◆ ⇒ ["1.47.1 TDI engine", page 34](#)
- ◆ ⇒ ["1.47.2 1.4L gasoline engine", page 35](#)
- ◆ ⇒ ["1.47.3 All other engines", page 35](#)

1.47.1 TDI engine

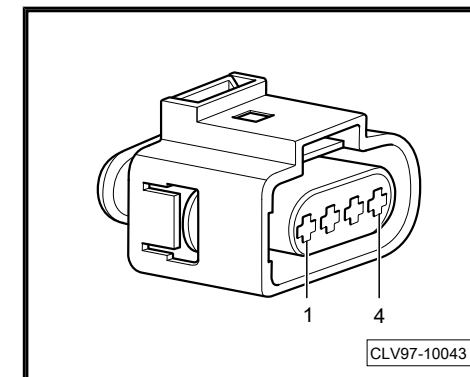
4-pin connector -T4bt-



| Cavity | Function | Cavity | Function |
|--------|----------------------------|--------|----------------|
| 1 | Ground | 3 | 5 volt |
| 2 | Signal, temperature sensor | 4 | Signal, sensor |

1.47.2 1.4L gasoline engine

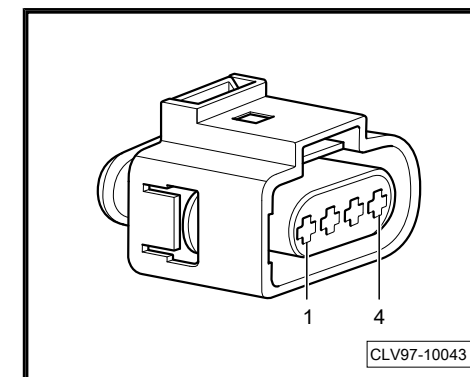
4-pin connector -T4df-



| Cavity | Function | Cavity | Function |
|--------|----------------------------|--------|----------------|
| 1 | Ground | 3 | 5 volt |
| 2 | Signal, temperature sensor | 4 | Signal, sensor |

1.47.3 All other engines

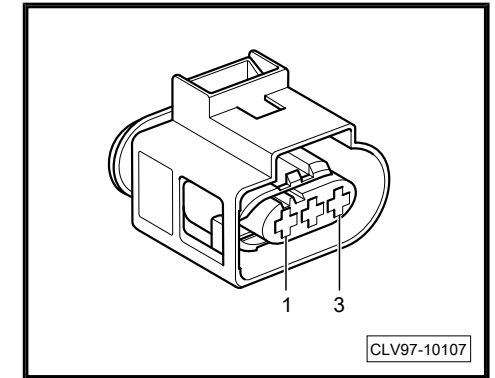
4-pin connector -T4aj-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------------|
| 1 | Ground | 3 | 5 volt |
| 2 | ... | 4 | Signal, sensor |

1.48 Fuel pressure sensor -G247-

3-pin connector -T3z- / 3-pin connector -T3al-

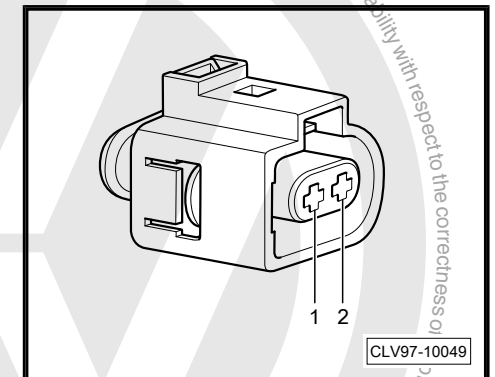


| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, sensor |
| 3 | 5 volt, sensor |

1.49 Wastegate bypass regulator valve -N75-

TDI, and 2.0L gasoline engines

Double connector -T2ed-

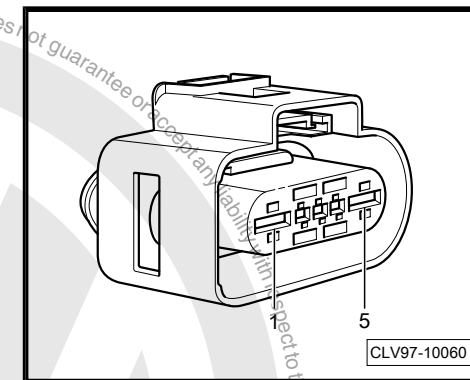


| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.50 Transfer fuel pump -G6-

All engines

5-pin connector -T5b-

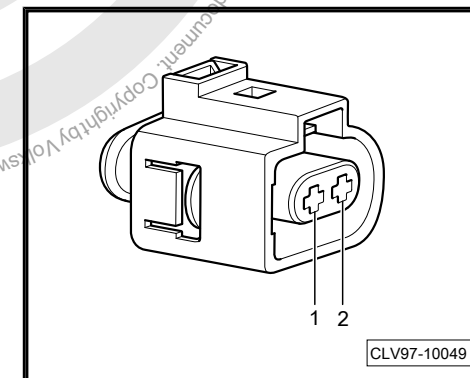


| Cavity | Function | Cavity | Function |
|--------|--------------------------------|--------|------------------------|
| 1 | Fuel pump, power | 4 | Signal, sensor (EMPTY) |
| 2 | Signal Monitor, sensor (Wiper) | 5 | Fuel pump, ground |
| 3 | Signal, sensor (FULL) | | |

1.51 Fuel pump 2 -V277-

TDI engine

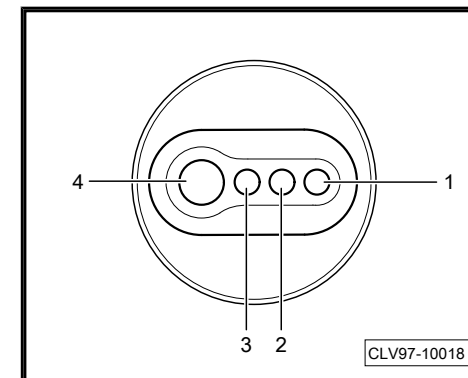
Double connector -T2fl-



| Cavity | Function |
|--------|-------------------|
| 1 | Fuel pump, ground |
| 2 | Fuel pump, power |

**1.52 Cylinder 1 internal pressure sensor
-G620-**

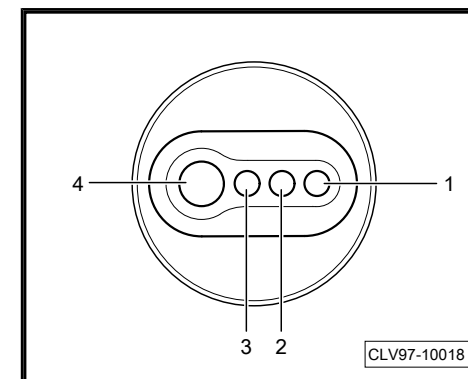
4-pin connector -T4cb-



| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Voltage, sensor | 3 | Ground, sensor |
| 2 | Signal, sensor | 4 | Glow Plug |

**1.53 Cylinder 2 internal pressure sensor
-G621-**

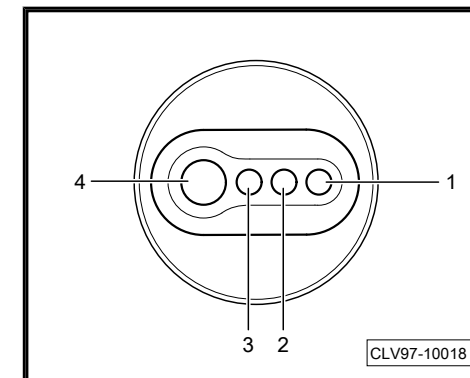
4-pin connector -T4cc-



| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Voltage, sensor | 3 | Ground, sensor |
| 2 | Signal, sensor | 4 | Glow Plug |

1.54 Cylinder 3 internal pressure sensor -G622-

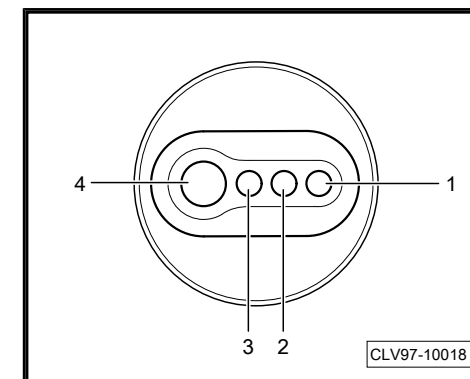
4-pin connector -T4cd-



| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Voltage, sensor | 3 | Ground, sensor |
| 2 | Signal, sensor | 4 | Glow Plug |

1.55 . Cylinder 4 internal pressure sensor -G623-

4-pin connector -T4ce-

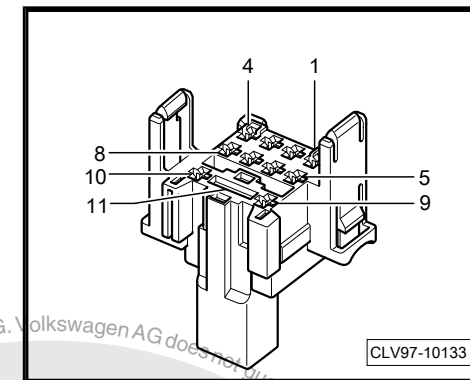


| Cavity | Function | Cavity | Function |
|--------|-----------------|--------|----------------|
| 1 | Voltage, sensor | 3 | Ground, sensor |
| 2 | Signal, sensor | 4 | Glow Plug |

1.56 Automatic glow time control module -J179-

TDI engine

11-pin connector -T11a-



| Cavity | Function | Cavity | Function |
|--------|--------------------|--------|-------------------|
| 1 | Glow plug 1, power | 7 | Ground |
| 2 | Glow plug 2, power | 8 | ... |
| 3 | Glow plug 3, power | 9 | Signal, Diagnoses |
| 4 | Glow plug 4, power | 10 | Signal, Control |
| 5 | ... | 11 | Voltage Supply |
| 6 | Signal (+) | | |

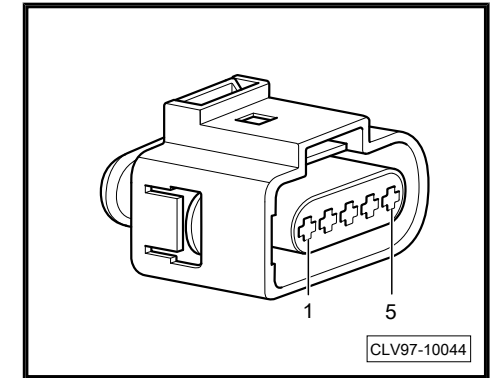
1.57 Mass airflow sensor -G70-

◆ ⇒ ["1.57.1 TDI engine ", page 41](#)

◆ ⇒ ["1.57.2 2.0L CCTA/CBFA TFSI ", page 41](#)

1.57.1 TDI engine

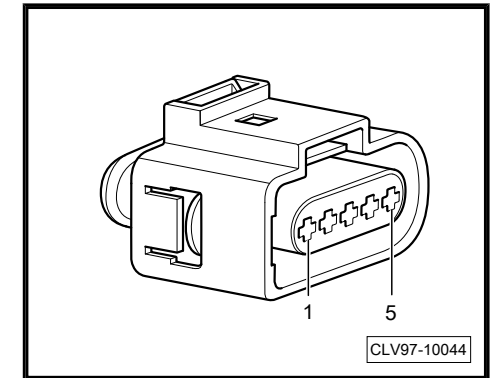
5-pin connector -T5d-



| Cavity | Function | Cavity | Function |
|--------|------------------------------|--------|----------------|
| 1 | Signal, sensor (Air-mass) | 4 | Ground, Sensor |
| 2 | Signal, sensor (temperature) | 5 | Voltage Supply |
| 3 | ... | | |

1.57.2 2.0L CCTA/CBFA TFSI

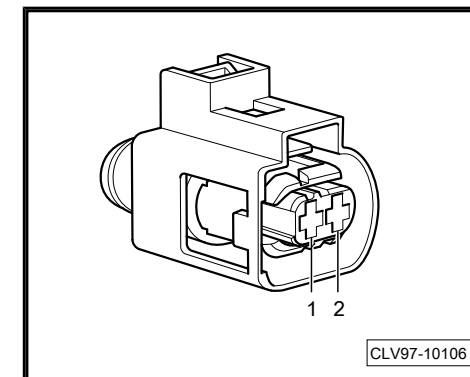
5-pin connector -T5d-



| Cavity | Function | Cavity | Function |
|--------|----------------------|--------|----------|
| 1 | Signal, sensor (in) | 4 | .... |
| 2 | Signal, sensor (out) | 5 | ... |
| 3 | Voltage Supply | | |

1.58 Fuel pressure regulator valve -N276-

Double connector -T2dv-



| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

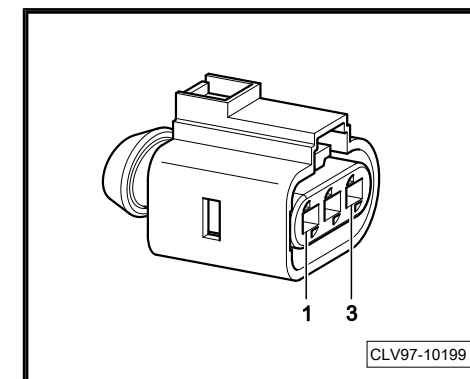
1.59 Charge pressure actuator position sensor -G581-

♦ ⇒ ["1.59.1 TDI engine", page 42](#)

♦ for 1.4L, 1.8L and 2.0L refer to ⇒ ["1.63 Charge pressure actuator V465", page 45](#)

1.59.1 TDI engine

3-pin connector -T3o-

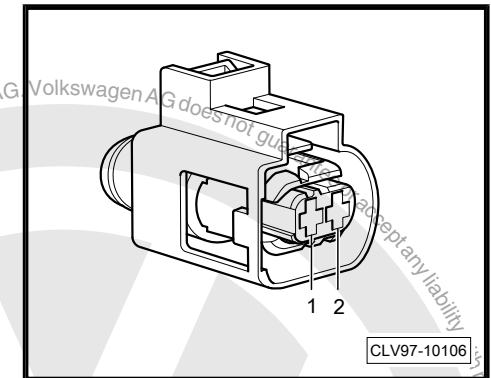


| Cavity | Function |
|--------|----------------|
| 1 | Ground, sensor |
| 2 | Signal, Sensor |
| 3 | 5 Volt, Sensor |

1.60 Fuel metering valve -N290-

TDI engine, 1.8L/2.0L gas GEN 3

Double connector -T2ec-

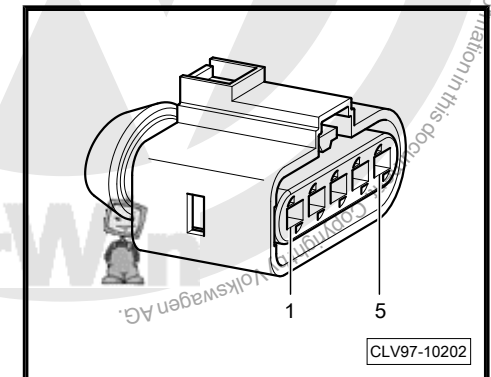


| Cavity | Function |
|--------|----------|
| 1 | Ground |
| 2 | Power |

1.61 Exhaust door control unit -J883-

TDI engine

5-pin connector -T5k-



| Cavity | Function | Cavity | Function |
|--------|----------------|--------|---------------|
| 1 | 5 volt, power | 4 | Motor, ground |
| 2 | Sensor, signal | 5 | Motor, power |
| 3 | Ground | | |

1.62 Coolant fan control module -J293-

Coolant fan -V7-

Right coolant fan -V35-

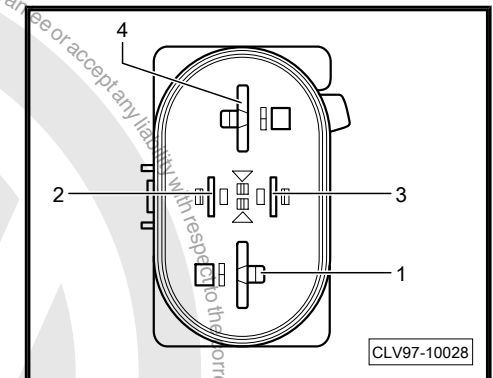
Coolant fan 2 -V177-

♦ ⇒ ["1.62.1 4-pin", page 44](#)

♦ ⇒ ["1.62.1 4-pin", page 44](#)

1.62.1 4-pin

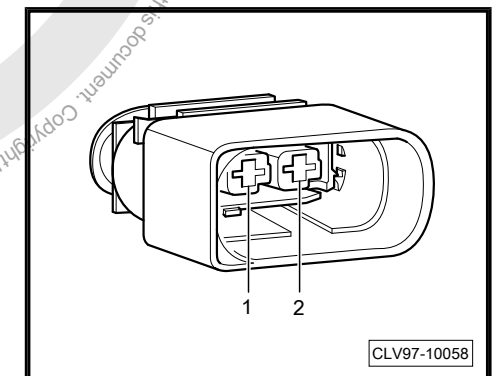
4-pin connector -T4x-



| Cavity | Function | Cavity | Function |
|--------|---------------|--------|--------------------|
| 1 | Power, fan | 3 | PWM signal, module |
| 2 | Power, module | 4 | Ground, module |

1.62.2 2-pin

Double connector -T2ah-

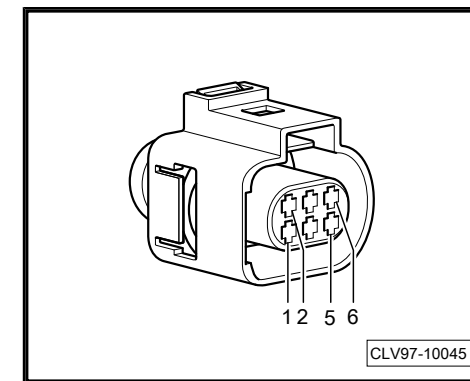


| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.63 Charge pressure actuator -V465-

Charge pressure actuator position sensor -G581-

6-pin connector -T6bm-

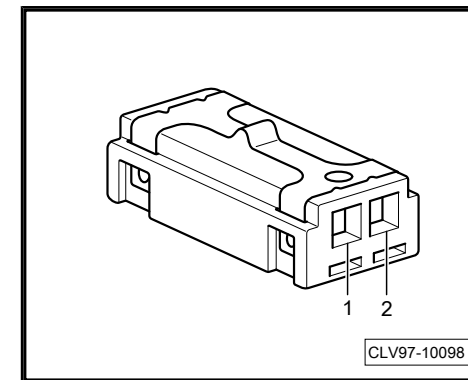


| Cavity | Function | Cavity | Function |
|--------|----------------|--------|----------------|
| 1 | 5V, sensor | 4 | ... |
| 2 | Ground, motor | 5 | Signal, sensor |
| 3 | Ground, sensor | 6 | Power, motor |

1 Conn. Views Parking Aid

1.1 Rear parking aid warning buzzer -H15-

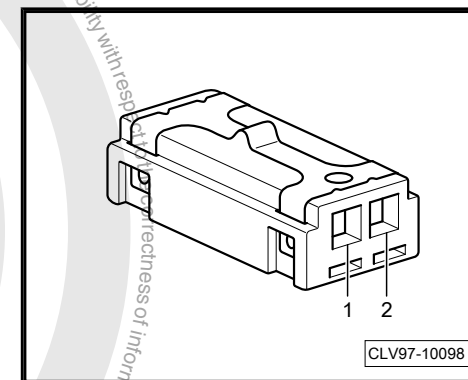
Double connector -T2ca-



| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

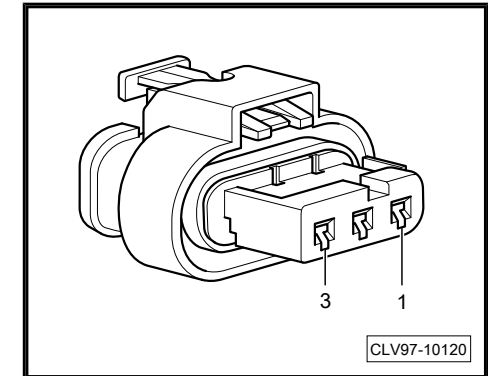
1.2 Front parking aid warning buzzer -H22-

Double connector



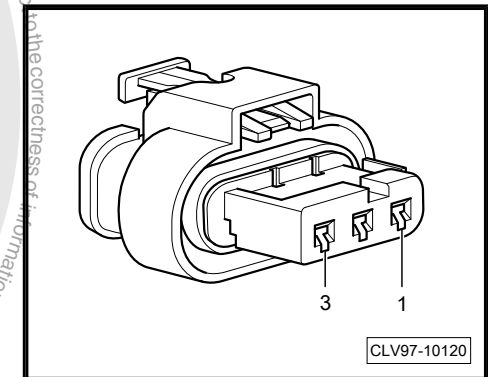
| Cavity | Function |
|--------|--------------------|
| 1 | Signal (+), sensor |
| 2 | Signal (-), sensor |

1.3 Right front parking aid sensor -G252-



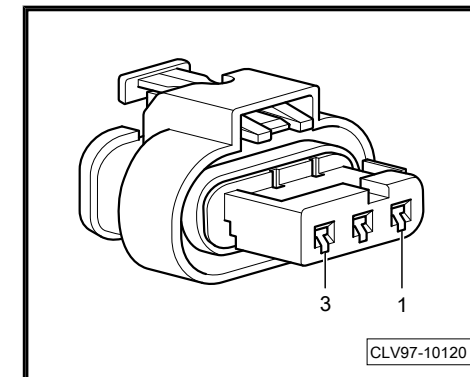
| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

1.4 Right front center parking aid sensor -G253-



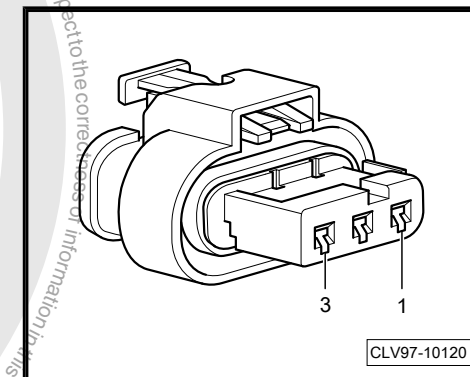
| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

1.5 Left front center parking aid sensor
-G254-



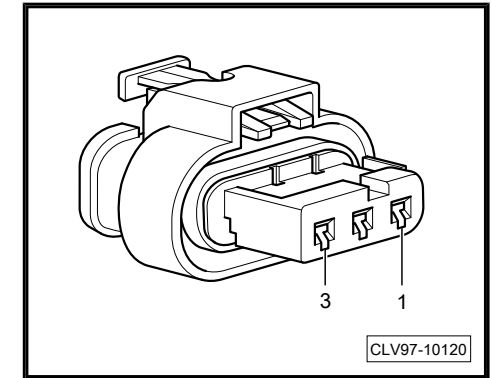
| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

1.6 Left front parking aid sensor -G255-



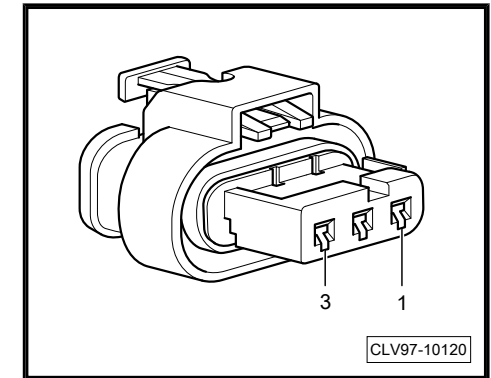
| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

1.7 Left rear parking aid sensor -G203-



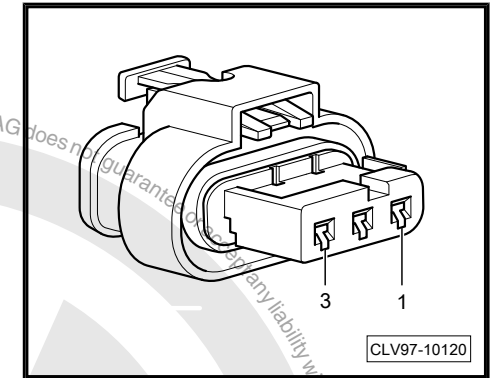
| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

1.8 Left rear center parking aid sensor -G204-



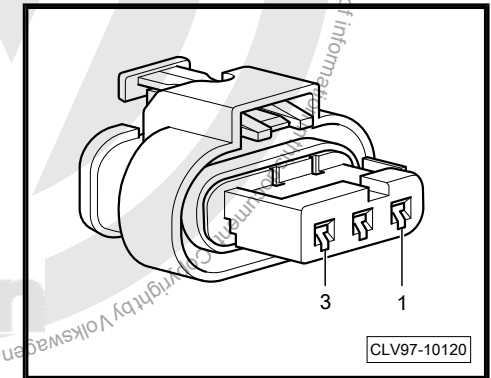
| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

**1.9 Right rear center parking aid sensor
-G205-**



| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

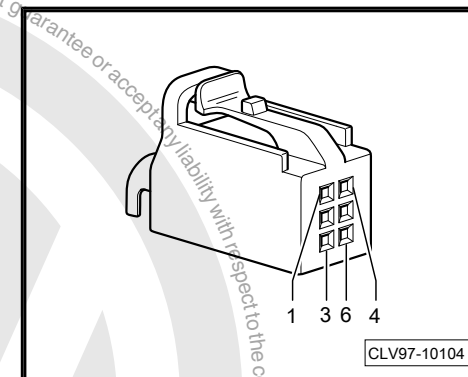
1.10 Right rear parking aid sensor -G206-



| Cavity | Function |
|--------|-----------------------|
| 1 | Signal return, sensor |
| 2 | Signal, sensor |
| 3 | Ground, Sensor |

1.11 Parking aid button -E266-

6-pin connector -T6-



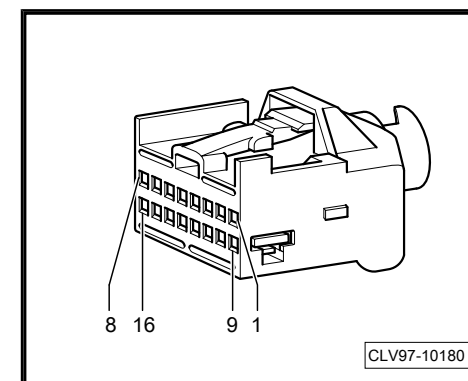
| Cavity | Function | Cavity | Function |
|--------|-----------------------------|--------|----------------------------|
| 1 | Ground (31), LED | 4 | Ground (31), sensor |
| 2 | Power LED | 5 | On/off LED |
| 3 | Dimmer signal (58d), Sensor | 6 | Dimmer ground (31), sensor |

1.12 Parking aid control module -J446-

- ◆ ⇒ ["1.12.1 16-pin", page 6](#)
- ◆ ⇒ ["1.12.2 12-pin \(l\)", page 7](#)
- ◆ ⇒ ["1.12.3 12-pin \(m\)", page 8](#)

1.12.1 16-pin

16-pin connector -T16c-

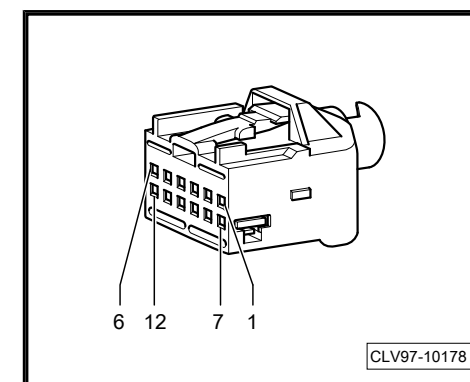


| Cavity | Function | Cavity | Function |
|--------|---------------------|--------|-------------|
| 1 | Ignition power (15) | 9 | Signal, LED |

| Cavity | Function | Cavity | Function |
|--------|---------------------|--------|---------------|
| 2 | Signal, sensor | 10 | Power, module |
| 3 | ... | 11 | ... |
| 4 | On/off | 12 | ... |
| 5 | Not used | 13 | Signal, LED |
| 6 | CAN-H | 14 | ... |
| 7 | ... | 15 | CAN-L |
| 8 | Ground (31), Module | 16 | Switch input |

1.12.2 12-pin (I)

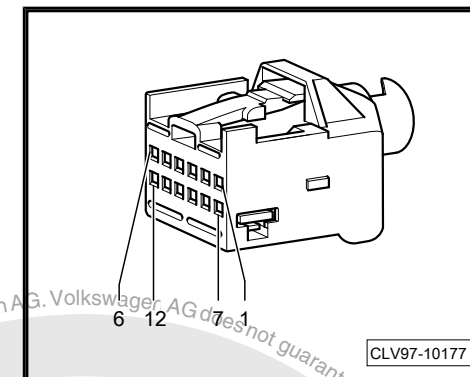
12-pin connector -T12I-



| Cavity | Function | Cavity | Function |
|--------|-----------------------|--------|----------------|
| 1 | Ground, sensor | 7 | Signal, sensor |
| 2 | Signal return, sensor | 8 | Signal, sensor |
| 3 | Signal (-), sensor | 9 | Signal, sensor |
| 4 | Signal (+), sensor | 10 | Signal, sensor |
| 5 | Signal, sensor | 11 | ... |
| 6 | Signal, sensor | 12 | ... |

1.12.3 12-pin (m)

12-pin connector -T12m-



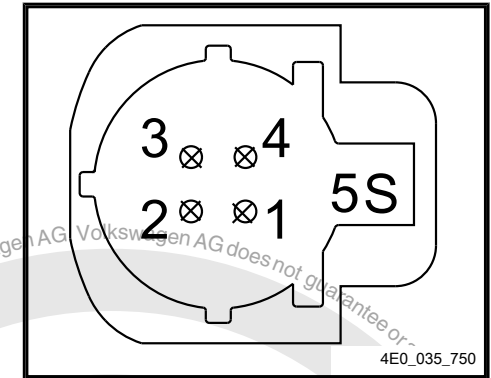
| Cavity | Function | Cavity | Function |
|--------|----------------|--------|-----------------------|
| 1 | ... | 7 | ... |
| 2 | Signal, sensor | 8 | Ground, sensor |
| 3 | Signal, sensor | 9 | ... |
| 4 | Signal, sensor | 10 | ... |
| 5 | Signal, sensor | 11 | Signal return, sensor |
| 6 | ... | 12 | ... |

1.13 Rearview camera -R189-

- ◆ ⇒ ["1.13.1 4-pin \(cp\)", page 9](#)
- ◆ ⇒ ["1.13.2 4-pin \(cq\)", page 9](#)
- ◆ ⇒ ["1.13.3 2-pin \(dv\)", page 10](#)

1.13.1 4-pin (cp)

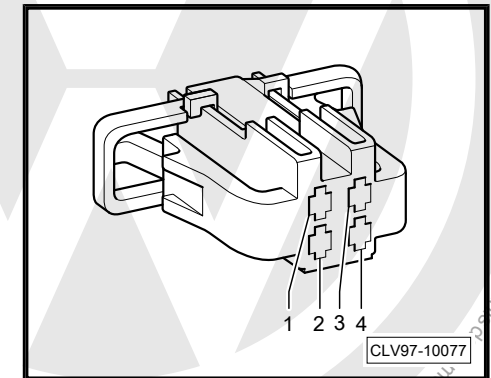
4-pin connector -T4cp-



| Cavity | Function | Cavity | Function |
|--------|------------------------------|--------|------------------------|
| 1 | Signal (+)_Out_CS SYNC (RNS) | 3 | Signal (+)_OUT_G (RNS) |
| 2 | Signal (+) OUT_R (RNS) | 4 | Signal (+)_OUT_B (RNS) |

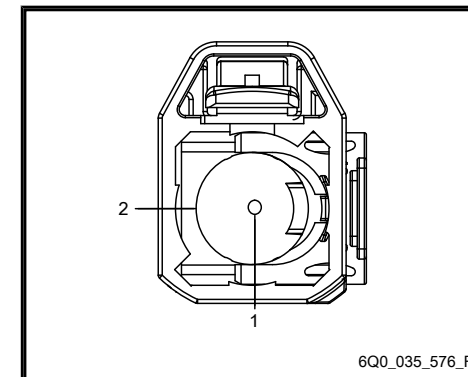
1.13.2 4-pin (cq)

4-pin connector -T4cq-

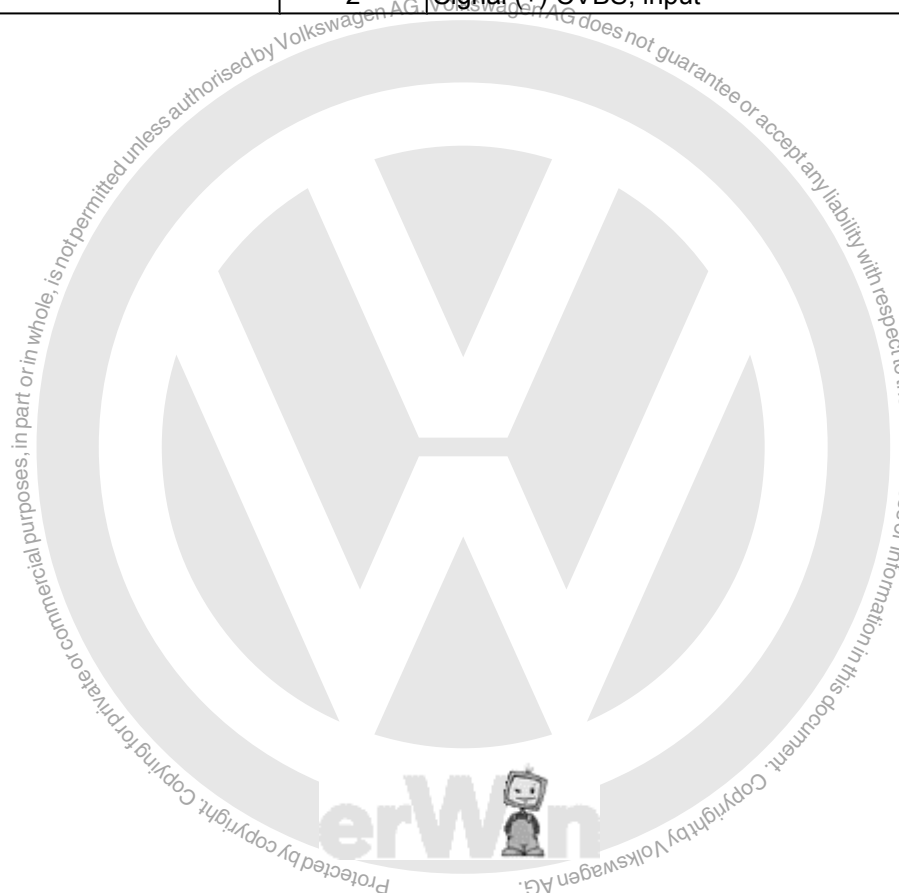


| Cavity | Function | Cavity | Function |
|--------|-------------|--------|--------------------------|
| 1 | Power (30) | 3 | ... |
| 2 | Ground (31) | 4 | Signal (+)_INPUT_Reverse |

1.13.3 2-pin (dv)



| Cavity | Function | Cavity | Function |
|--------|------------------------|--------|------------------------|
| 1 | Signal (-) CVBS, input | 2 | Signal (+) CVBS, input |



1 Conn. Views Transmission

1.1 Tiptronic switch -F189-

Selector lever -E313-

Selector lever park position lock switch -F319-

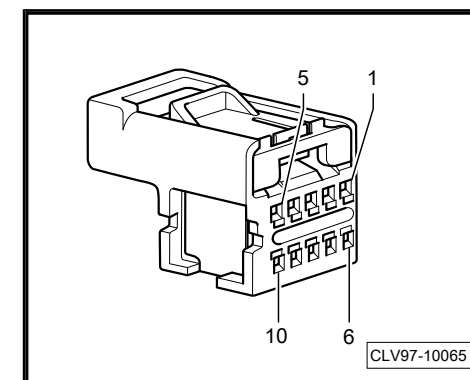
◆ ⇒ ["1.1.1 10-pin \(s\)", page 1](#)

◆ ⇒ ["1.1.2 10-pin \(v\)", page 2](#)

◆ ⇒ ["1.1.3 2-pin", page 2](#)

1.1.1 10-pin (s)

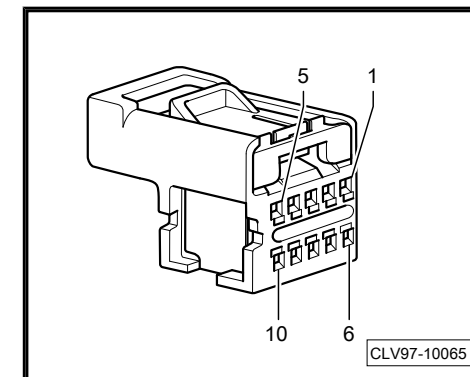
10-pin connector -T10s-



| Cavity | Function | Cavity | Function |
|--------|-------------------------------------|--------|-----------------------------|
| 1 | Ground, park switch | 6 | Tiptronic Info |
| 2 | Park switch, output | 7 | Power, shift lock solenoid |
| 3 | PWM to Transmission Controller | 8 | Ground, shift lock solenoid |
| 4 | ... | 9 | Power, switched |
| 5 | Output to Transmission Range Switch | 10 | Power, battery |

1.1.2 10-pin (v)

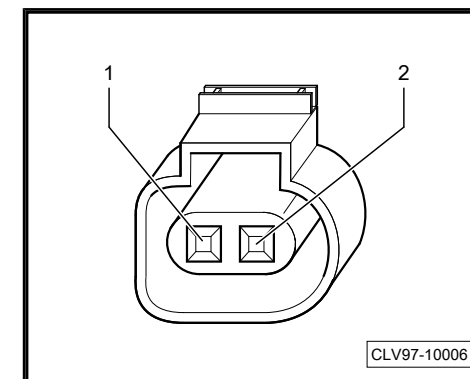
10-pin connector -T10v-



| Cavity | Function | Cavity | Function |
|--------|--------------------------------------|--------|--------------------------------------|
| 1 | Ground, park switch | 6 | Output to Transmission Range Display |
| 2 | Park switch, output | 7 | Output to Transmission Range Display |
| 3 | Output to Transmission Range Display | 8 | Output to Transmission Range Display |
| 4 | Output to Transmission Range Display | 9 | ... |
| 5 | Output to Transmission Range Display | 10 | ... |

1.1.3 2-pin

Double connector -T2p-



| Cavity | Function |
|--------|----------------------------|
| 1 | Shift lock solenoid signal |
| 2 | Shift lock solenoid ground |

1.2 Selector lever sensor system control module -J587-

Selector lever -E313-

Selector lever park position lock switch -F319-

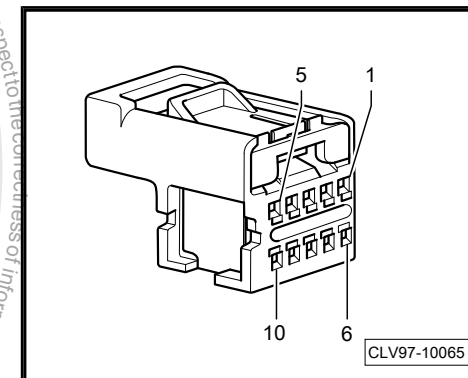
♦ ⇒ [“1.2.1 10-pin \(s\)”, page 3](#)

♦ ⇒ [“1.2.2 10-pin \(v\)”, page 4](#)

♦ ⇒ [“1.2.3 2-pin”, page 4](#)

1.2.1 10-pin (s)

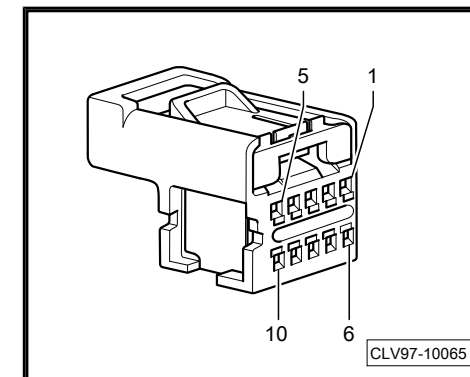
10-pin connector -T10s-



| Cavity | Function | Cavity | Function |
|--------|--|--------|-----------------|
| 1 | Ground, park switch | 6 | ... |
| 2 | Park switch, output | 7 | CAN H |
| 3 | ... | 8 | CAN L |
| 4 | ... | 9 | Power, switched |
| 5 | Output to Vehicle electrical system control module | 10 | Power, battery |

1.2.2 10-pin (v)

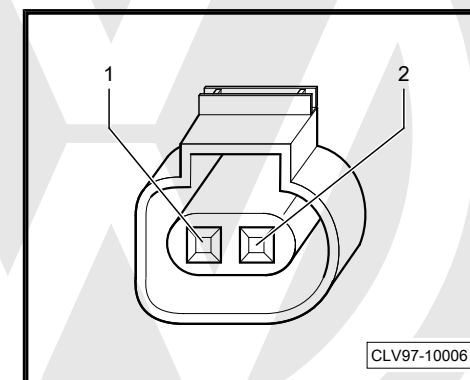
10-pin connector -T10v-



| Cavity | Function | Cavity | Function |
|--------|--------------------------------------|--------|--------------------------------------|
| 1 | Ground, park switch | 6 | Output to Transmission Range Display |
| 2 | Park switch, output | 7 | Output to Transmission Range Display |
| 3 | Output to Transmission Range Display | 8 | Output to Transmission Range Display |
| 4 | Output to Transmission Range Display | 9 | ... |
| 5 | Output to Transmission Range Display | 10 | ... |

1.2.3 2-pin

Double connector -T2p-



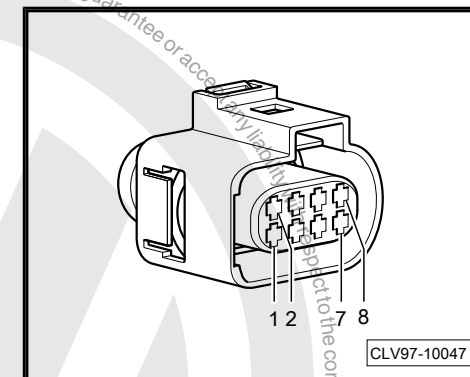
| Cavity | Function |
|--------|----------------------------|
| 1 | Shift lock solenoid signal |
| 2 | Shift lock solenoid ground |

1.3 Transmission fluid temperature sensor -G93-

Transmission input speed sensor -G182-

Transmission output speed sensor -G195-

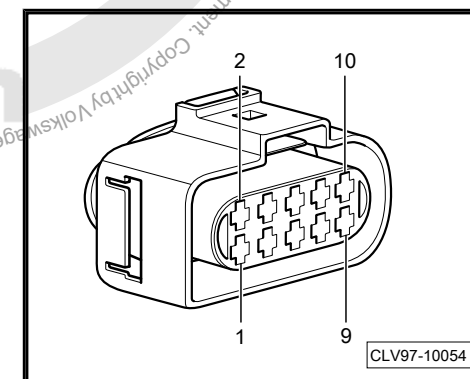
8-pin connector -T8-



| Cavity | Function | Cavity | Function |
|--------|---|--------|---------------------------------|
| 1 | Signal, transmission fluid temperature sensor | 5 | Signal (+), output speed sensor |
| 2 | Signal (-), transmission fluid temperature sensor | 6 | Signal (-), output speed sensor |
| 3 | Signal (+), input speed sensor | 7 | ... |
| 4 | Signal (-), input speed sensor | 8 | ... |

1.4 Multifunction transmission range switch -F125-

10-pin connector -T10o-



| Cavity | Function | Cavity | Function |
|--------|----------------------------|--------|--------------|
| 1 | Signal, (A) | 6 | ... |
| 2 | Signal, (ST+) Park Neutral | 7 | Signal, (B) |
| 3 | Ground | 8 | Signal, (BK) |

| Cavity | Function | Cavity | Function |
|--------|---------------|--------|----------------|
| 4 | Ground, (ST-) | 9 | Signal, (C) |
| 5 | Signal, (PA) | 10 | Power, battery |

1.5 Transmission -NX1-

Solenoid valve 1 -N88-

Solenoid valve 2 -N89-

Solenoid valve 3 -N90-

Solenoid valve 4 -N91-

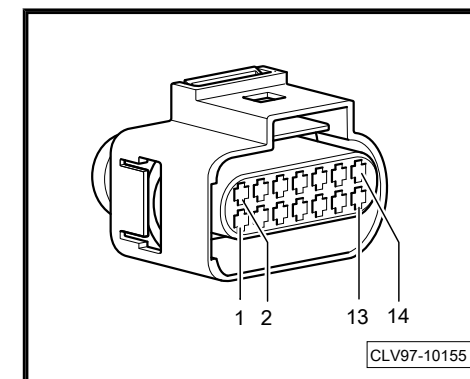
Solenoid valve 5 -N92-

Solenoid valve 6 -N93-

Solenoid valve 9 -N282-

Solenoid valve 10 -N283-

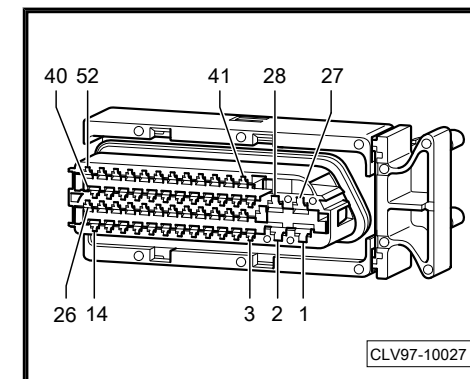
14-pin connector -T14e-



| Cavity | Function | Cavity | Function |
|--------|-------------------------------------|--------|--------------------------------------|
| 1 | Signal, Solenoid valve 1 -N88- | 8 | Signal (-), Solenoid valve 3 -N90- |
| 2 | Signal, Solenoid valve 2 -N89- | 9 | Signal (+), Solenoid valve 10 -N283- |
| 3 | Signal (+), Solenoid valve 5 -N92- | 10 | Signal (-), Solenoid valve 10 -N283- |
| 4 | Signal (-), Solenoid valve 5 -N92- | 11 | Signal (+), Solenoid valve 4 -N91- |
| 5 | Signal (+), Solenoid valve 9 -N282- | 12 | Signal (-), Solenoid valve 4 -N91- |
| 6 | Signal (-), Solenoid valve 9 -N282- | 13 | Signal (+), Solenoid valve 6 -N93- |
| 7 | Signal (+), Solenoid valve 3 -N90- | 14 | Signal (-), Solenoid valve 6 -N93- |

1.6 Transmission control module -J217-

52-pin connector -T52-



| Cavity | Function | Cavity | Function |
|--------|---|--------|---|
| 1 | Ground | 16 | Signal (+), Solenoid valve 9 -N282- |
| 2 | Ground | 17 | Signal (-), Solenoid valve 6 -N93- |
| 3 | Power, battery | 18 | Signal (-), Solenoid valve 3 -N90- |
| 4 | Signal (+), Solenoid valve 10 -N283- | 19 | ... |
| 5 | Signal (+), Solenoid valve 4 -N91- | 20 | ... |
| 6 | Signal (-), Solenoid valve 5 -N92- | 21 | Signal, (BK) |
| 7 | ... | 22 | Signal, (PA) |
| 8 | Signal (-), transmission fluid temperature sensor | 23 | ... |
| 9 | K Line, diagnostic | 24 | ... |
| 10 | Signal, (B) | 25 | ... |
| 11 | ... | 26 | ... |
| 12 | ... | 27 | Power, switched |
| 13 | ... | 28 | Power, switched |
| 14 | ... | 29 | Power, shift lock solenoid |
| 15 | Signal, Solenoid valve 2 -N89- | | |
| 30 | Signal (+), Solenoid valve 3 -N90- | 42 | Signal (+), Solenoid valve 5 -N92- |
| 31 | Signal (+), Solenoid valve 6 -N93- | 43 | Signal (-), Solenoid valve 4 -N91- |
| 32 | Signal (-), Solenoid valve 9 -N282- | 44 | Signal (-), Solenoid valve 10 -N283- |
| 33 | ... | 45 | Signal, transmission fluid temperature sensor |
| 34 | CAN L | 46 | CAN H |
| 35 | ... | 47 | Signal, (A) |

| Cavity | Function | Cavity | Function |
|--------|---------------------------------|--------|---------------------------------|
| 36 | Signal, (C) | 48 | Tiptronic Info |
| 37 | ... | 49 | ... |
| 38 | Signal (+), output speed sensor | 50 | Signal (-), output speed sensor |
| 39 | Signal (-), input speed sensor | 51 | Signal (+), input speed sensor |
| 40 | PWM to Tiptronic switch | 52 | ... |
| 41 | Signal, Solenoid valve 1 -N88- | | |

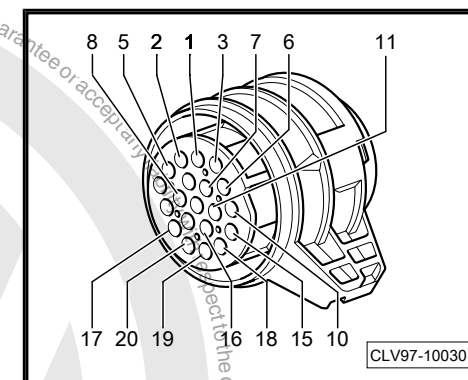
1.7 DSG Transmission Mechatronic -J743-

◆ ⇒ [“1.7.1 DSG, 02E DQ250”, page 8](#)

◆ ⇒ [“1.7.2 DSG, 0AM/0CG DQ200”, page 9](#)

1.7.1 DSG, 02E DQ250

20-pin connector -T20e-

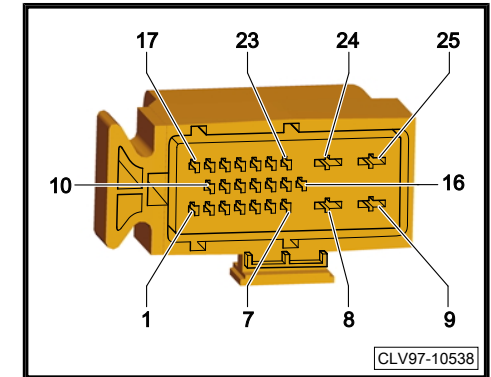


| Cavity | Function | Cavity | Function |
|--------|--------------------|--------|--|
| 1 | K Line, diagnostic | 11 | Power, battery |
| 2 | ... | 12 | ... |
| 3 | ... | 13 | Power, switched |
| 4 | ... | 14 | ... |
| 5 | ... | 15 | CAN L |
| 6 | ... | 16 | Ground |
| 7 | ... | 17 | Output to Vehicle electrical system control module |
| 8 | ... | 18 | Power, battery |
| 9 | ... | 19 | Ground |

| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 10 | CAN H | 20 | ... |

1.7.2 DSG, 0AM/0CG DQ200

25-pin connector -T25-

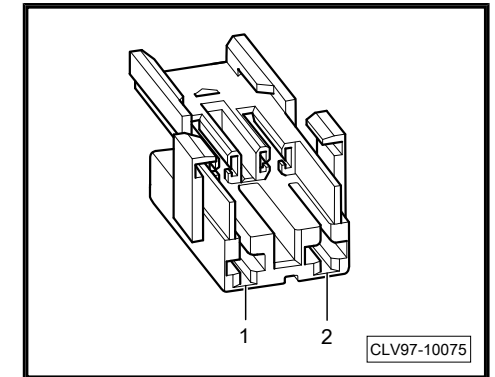


| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | ... | 14 | ... |
| 2 | ... | 15 | ... |
| 3 | ... | 16 | Output to Vehicle Engine control module From June 2012 |
| 4 | ... | 17 | ... |
| 5 | ... | 18 | ... |
| 6 | ... | 19 | ... |
| 7 | ... | 20 | ... |
| 8 | Ground | 21 | ... |
| 9 | Power, battery | 22 | ... |
| 10 | Power, switched | 23 | ... |
| 11 | Output to Vehicle electrical system control module From November 2010 | 24 | Ground |
| 12 | CAN H | 25 | Power, battery |
| 13 | CAN L | | |

1 Conn. Views Comfort

1.1 Driver seat height adjustment motor -V138-

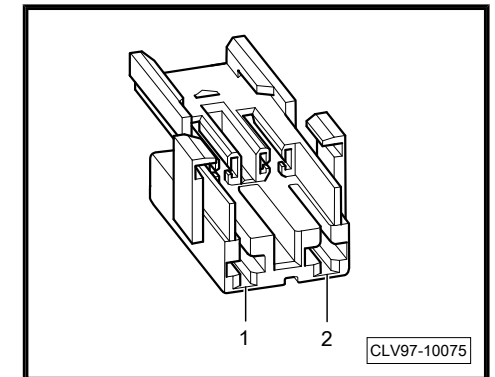
4-pin connector -T4o-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 1 | Down | 3 | ... |
| 2 | Up | 4 | ... |

1.2 Driver seat forward/back adjustment motor -V28-

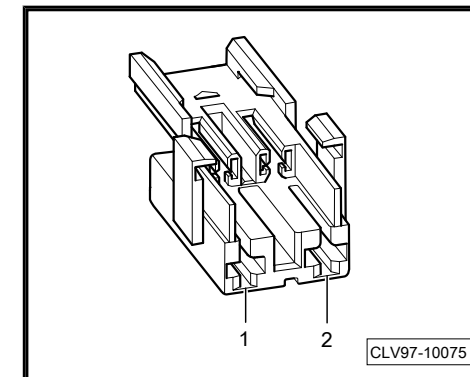
4-pin connector -T4s-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 1 | Forward | 3 | ... |
| 2 | Back | 4 | ... |

1.3 Seat angle adjustment motor -V231-

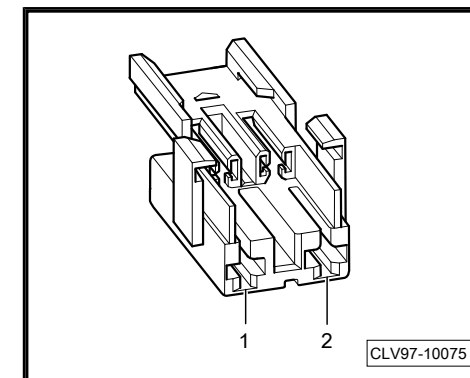
4-pin connector -T4i-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 1 | Up | 3 | ... |
| 2 | Down | 4 | ... |

1.4 Driver backrest adjustment motor -V45-

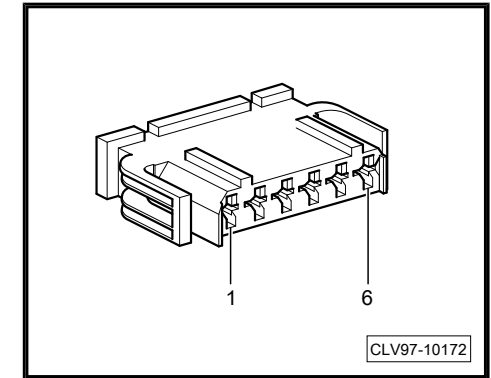
4-pin connector -T4q-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 1 | Back | 3 | ... |
| 2 | Forward | 4 | ... |

1.5 Driver seat lumbar support adjustment switch -E176-

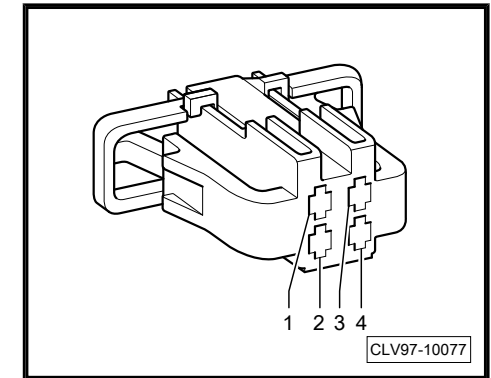
6-pin connector -T6ah-



| Cavity | Function | Cavity | Function |
|--------|---|--------|---|
| 1 | Lumbar support curvature adjustment motor - Forward | 4 | Power |
| 2 | Lumbar support curvature adjustment motor - Back | 5 | Lumbar support height adjustment motor - Up |
| 3 | Ground | 6 | Lumbar support height adjustment motor - Down |

1.6 Driver seat lumbar support curvature adjustment motor -V125-

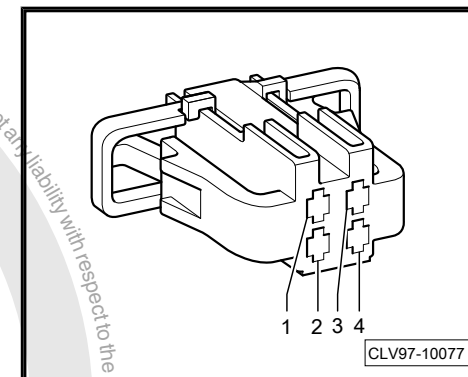
4-pin connector -T4bg-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 1 | Forward | 3 | ... |
| 2 | Back | 4 | ... |

1.7 Driver seat lumbar support height adjustment motor -V129-

4-pin connector -T4bh-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|----------|
| 1 | Down | 3 | ... |
| 2 | Up | 4 | ... |

1.8 Seat forward/back adjustment button -E418-

Seat forward/back adjustment button -E418-

Angle adjustment button -E421-

Seat height adjustment button -E424-

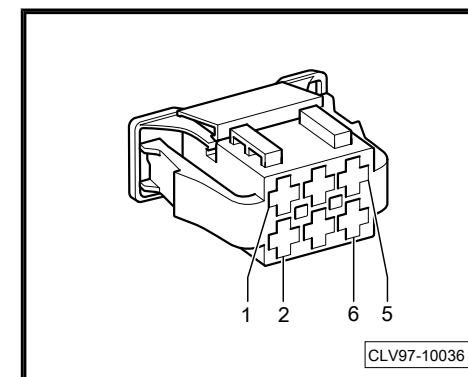
Backrest adjustment button -E425-

♦ ⇒ ["1.8.1 6-pin \(g\)", page 4](#)

♦ ⇒ ["1.8.2 10-pin \(t\)", page 5](#)

1.8.1 6-pin (g)

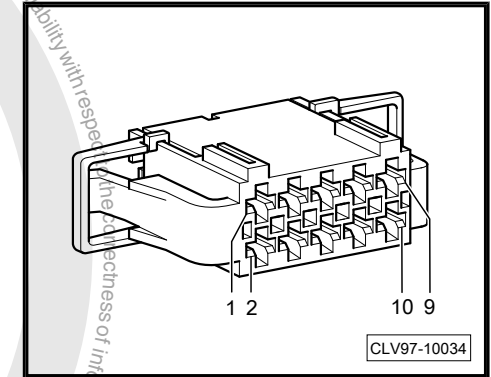
6-pin connector -T6g-



| Cavity | Function | Cavity | Function |
|--------|-----------------------|--------|------------------------------|
| 1 | Ground, Seat Tilt | 4 | Power, Backrest Tilt |
| 2 | Power, Seat Tilt | 5 | Ground, Up/Down/Forward/Back |
| 3 | Ground, Backrest Tilt | 6 | Power, Up/Down/Forward/Back |

1.8.2 10-pin (t)

10-pin connector -T10t-



| Cavity | Function | Cavity | Function |
|--------|-------------------|--------|--------------------|
| 1 | Seat angle - Down | 6 | Seat - Forward |
| 2 | Seat angle - Up | 7 | Seat height - Down |
| 3 | ... | 8 | ... |
| 4 | Seat height - Up | 9 | Backrest - Forward |
| 5 | Seat - Back | 10 | Backrest - Back |

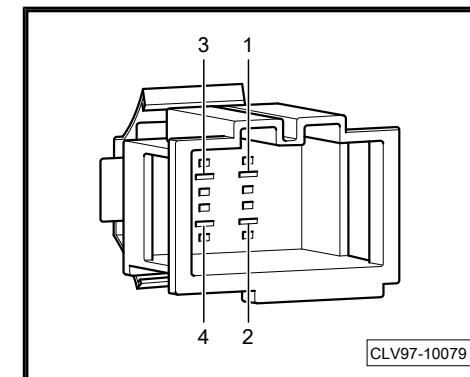
1.9 Heated driver seat temperature sensor -G59-

Heated driver seat temperature sensor -G59-

Driver seat heating element -Z6-

Driver seat bolster heater -Z31-

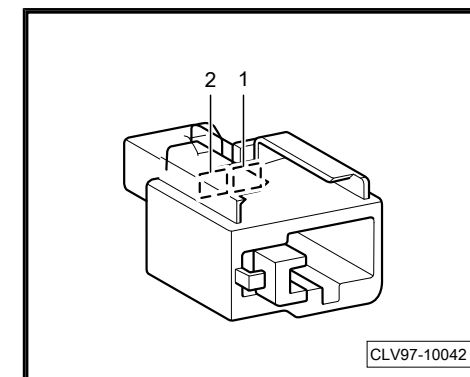
4-pin connector -T4l-



| Cavity | Function | Cavity | Function |
|--------|----------------------------|--------|---------------------------|
| 1 | Power, heaters | 3 | Power, temperature sensor |
| 2 | Ground, temperature sensor | 4 | Ground, heaters |

110 Driver backrest heating element -Z7-

Double connector -T2d-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

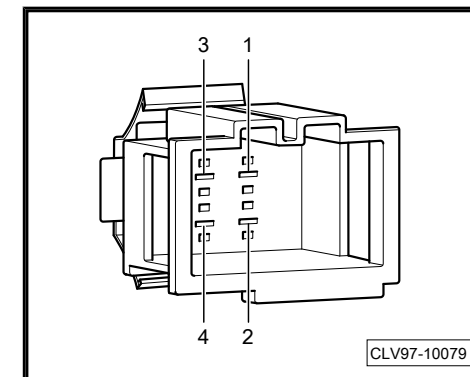
1.11 Front passenger heated seat temperature sensor -G60-

Front passenger heated seat temperature sensor -G60-

Front passenger seat heating element -Z8-

Front passenger seat bolster heater -Z33-

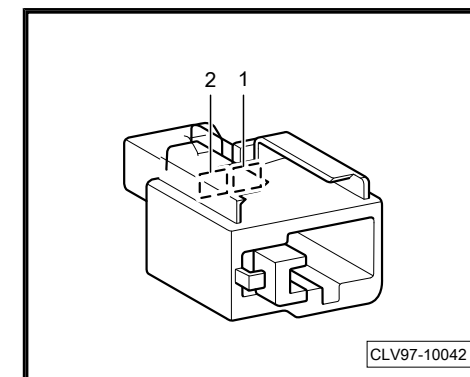
4-pin connector -T4m-



| Cavity | Function | Cavity | Function |
|--------|----------------------------|--------|---------------------------|
| 1 | Power, heaters | 3 | Power, temperature sensor |
| 2 | Ground, temperature sensor | 4 | Ground, heaters |

1.12 Front passenger backrest heating element -Z9-

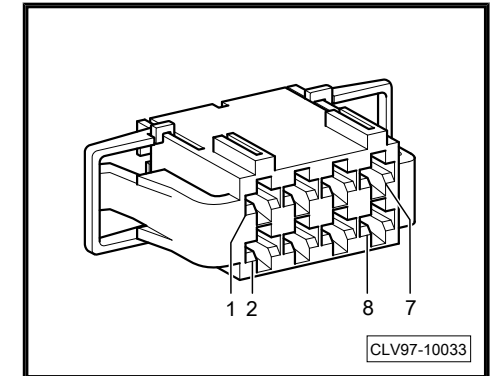
Double connector -T2e-



| Cavity | Function |
|--------|----------|
| 1 | Power |
| 2 | Ground |

1.13 Front seat heating control module -J774-

8-pin connector -T8z-



| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | Power, passenger seat heaters | 5 | Power, driver seat heaters |
| 2 | Ground, module | 6 | Power, module |
| 3 | Power, module | 7 | Ground, module |
| 4 | Signal, passenger seat temperature sensor | 8 | Signal, driver seat temperature sensor |

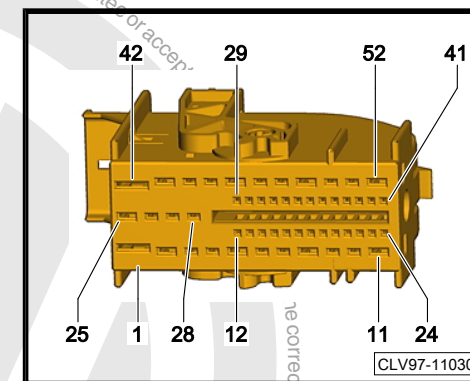
1.14 Vehicle electrical control module system -J519-

- ◆ ⇒ ["1.14.1 52-pin \(a\), AW1", page 9](#)
- ◆ ⇒ ["1.14.2 52-pin \(b\), AW1", page 10](#)
- ◆ ⇒ ["1.14.3 52-pin \(c\), AW1", page 11](#)
- ◆ ⇒ ["1.14.4 73-pin \(a\), AW0", page 13](#)
- ◆ ⇒ ["1.14.5 73-pin \(b\), AW0", page 14](#)

1.14.1 52-pin (a), AW1

Black connector

52-pin connector -T52a-



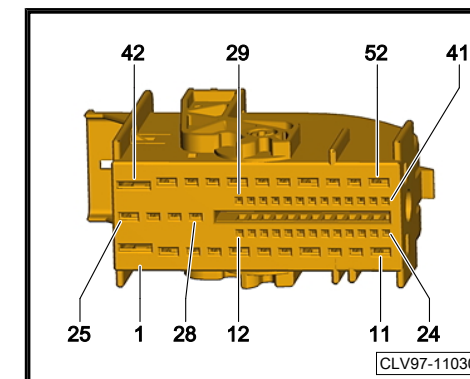
| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | Fuse 26 on fuse holder B -SB26- | 27 | Left tail light bulb -M4- Rear left side light |
| 2 | ... | 28 | Left reversing light bulb -M16- |
| 3 | ... | 29 | Rear lid lock unit -F256- |
| 4 | Right washer jet heater element -Z21- | 30 | Rear right door contact switch -F11- |
| 5 | Left headlight main beam bulb -M30- | 31 | ... |
| 6 | ... | 32 | ... |
| 7 | Left daytime running light bulb -L174- | 33 | ... |
| 8 | Right daytime running light bulb -L175- | 34 | ... |
| 9 | Rear right turn signal bulb -M8- | 35 | Heater/heat output switch -E16- |
| 10 | Front left turn signal bulb -M5- | 36 | Interior monitoring deactivation switch -E267- / deactivation button for vehicle inclination sender -E360- |
| 11 | Left headlight dipped beam bulb -M29- | 37 | Rear left door central locking motor, lock -V214- |
| 12 | ... | 38 | Rear left door control unit -J388- |
| 13 | Rear lid handle release button -E234- | 39 | Rear right door control unit -J389- |
| 14 | Hood contact switch -F266- | 40 | Rear left door control unit -J388- |
| 15 | ... | 41 | Rear left door contact switch -F10- |
| 16 | Reversing light switch -F4- | 42 | Earth connection 2, in main wiring harness -367- |
| 17 | Rear fog light switch -E18- | 43 | Washer pump -V5- |
| 18 | Light switch -E1- Zero position | 44 | Right side light bulb -M3- |
| 19 | Light switch -E1- Side lights | 45 | Additional brake light bulb -M25- |
| 20 | Light switch -E1- Driving light assist | 46 | Tank filler flap locking motor -V155- |

| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 21 | Fog light switch -E7- | 47 | ... |
| 22 | Light switch -E1- Headlight dipped beam | 48 | Rear left central locking lock unit -F222- |
| 23 | 367 - Ground connection 2, in main wiring harness | 49 | Rear right door central locking motor, lock -V215- |
| 24 | Positive connection 24 (30a) in main wiring harness -B684- Terminal 30ref | 50 | ... |
| 25 | Left fog light bulb -L22- | 51 | Button illumination bulb -L76- Connection 1 (58d), in main wiring harness -B340- |
| 26 | Right brake and tail light bulb -M22- | 52 | ... |

1.14.2 52-pin (b), AW1

White connector

52-pin connector -T52b-



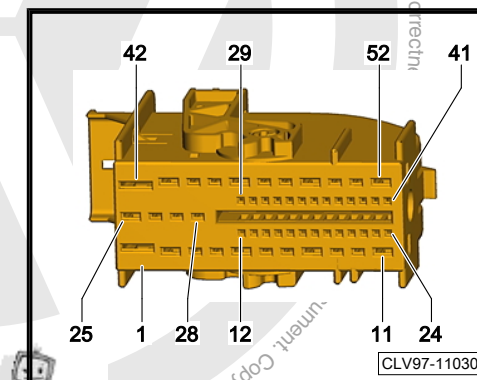
| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | Fuse 36 on fuse holder C -SC36- Central locking | 27 | Rear right door central locking SAFE function locking motor -V164- |
| 2 | Tank filler flap locking motor -V155- | 28 | X-contact relief relay -J59- |
| 3 | ... | 29 | Terminal 50 voltage supply relay -J682- |
| 4 | ... | 30 | Switch and instrument illumination regulator -E20- |
| 5 | Tank filler flap locking motor -V155- / fuel tank cap detection switch -F334- | 31 | ... |
| 6 | ... | 32 | ... |
| 7 | Rear left door central locking motor, lock -V214- | 33 | Rain and light sensor -G397- LIN bus |
| 8 | Rear right central locking lock unit -F223- | 34 | ... |
| 9 | ... | 35 | ... |
| 10 | ... | 36 | Alarm horn -H12- Interior monitoring sensor -G273- |
| 11 | Rear lid release motor -V139- | 37 | Interior monitoring deactivation switch -E267- / deactivation button for vehicle inclination sender -E360- |

| Cavity | Function | Cavity | Function |
|--------|---|--------|---|
| 12 | Terminal 15 voltage supply relay 2 -J681- | 38 | Fuel supply relay -J643- |
| 13 | ... | 39 | ... |
| 14 | Heater/heat output switch -E16- Heated rear window warning lamp -K10- | 40 | Headlight washer system relay -J39- |
| 15 | Switch and instrument illumination regulator -E20- | 41 | Dual tone horn relay -J4- |
| 16 | Sliding sunroof adjustment control unit -J245 | 42 | Fuse 48 on fuse holder C -SC48- |
| 17 | Sliding sunroof adjustment control unit -J245- Convenience closing | 43 | Positive connection, in roof wiring harness -B250- |
| 18 | Wiper motor relay 1 -J368- | 44 | ... |
| 19 | ... | 45 | ... |
| 20 | Windshield wiper motor -V- | 46 | ... |
| 21 | Heated front seats control unit -J774- | 47 | ... |
| 22 | Heated rear window relay -J9- | 48 | ... |
| 23 | Wiper motor relay 2 -J369- | 49 | ... |
| 24 | Hazard warning lights button -E229- | 50 | ... |
| 25 | ... | 51 | B340 - Connection 1 (58d), in main wiring harness/ A19 - Connection (58d), in dash panel wiring harness |
| 26 | Rear left door central locking SAFE function locking motor -V163- | 52 | 367 - ground connection 2, in main wiring harness |

1.14.3 52-pin (c), AW1

Brown connector

52-pin connector -T52c-



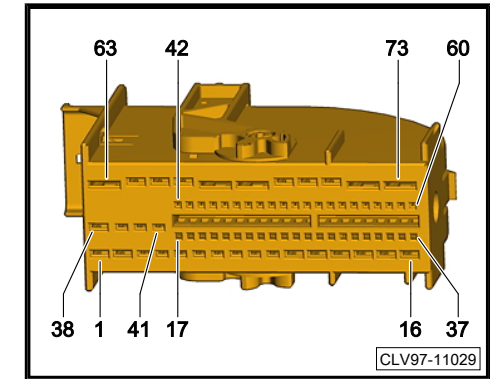
| Cavity | Function | Cavity | Function |
|--------|--|--------|---|
| 1 | Positive connection (30), in dash panel wiring harness -A32- | 27 | Positive connection (58), in number plate lights wiring harness -W41- |
| 2 | Alarm system horn -H18- | 28 | Connection (RL), in dash panel wiring harness -A87- |

| Cavity | Function | Cavity | Function |
|--------|--|--------|---|
| 3 | Connection (58R), in dash panel wiring harness -A85- | 29 | ... |
| 4 | Left brake light bulb -M9- , Left tail light -MX3- | 30 | Mechatronic unit for dual clutch gearbox -J743- P-N / Earth connection 3, in main wiring harness -368- Start/stop |
| 5 | 367 - ground connection 2, in main wiring harness | 31 | Steering column electronics control unit -J527- |
| 6 | ... | 32 | Connection (61), in interior light wiring harness -B177- / heater control unit -J162- |
| 7 | Hazard warning lights button -E229- | 33 | ... |
| 8 | ... | 34 | ... |
| 9 | ... | 35 | Switch and instrument illumination regulator -E20- |
| 10 | B154 - Connection 1 (DCt), in interior wiring harness | 36 | ... |
| 11 | ... | 37 | ... |
| 12 | ... | 38 | ... |
| 13 | Steering column electronics control unit -J527- Ignition/starter switch -D-Terminal S, Electronic steering column lock control unit -J764- | 39 | ... |
| 14 | Positive connection (50), in main wiring harness -B276- Steering column electronics control unit -J527- | 40 | Central locking and anti-theft alarm system aerial -R47- Aerial screening |
| 15 | Data bus diagnostic interface -J533- Connection 2 (convenience CAN bus, high), in main wiring harness -B407- | 41 | Central locking and anti-theft alarm system aerial -R47- |
| 16 | Data bus diagnostic interface -J533- Connection 2 (convenience CAN bus, low), in main wiring harness -B407- | 42 | Fuse 29 on fuse holder B -SB29- |
| 17 | Brake light switch -F- | 43 | ... |
| 18 | ... | 44 | ... |
| 19 | ... | 45 | ... |
| 20 | ... | 46 | Right headlight main beam bulb -M32 |
| 21 | ... | 47 | Rear left fog light bulb -L46- |
| 22 | ... | 48 | ... |
| 23 | ... | 49 | ... |
| 24 | Entry and start authorisation control unit -J518- | 50 | Front right turn signal bulb -M7- |
| 25 | Connection (fog light), in main wiring harness -B554- | 51 | Rear left turn signal bulb -M6- |
| 26 | Left side light bulb -M1- | 52 | Right headlight dipped beam bulb -M31- |

1.14.4 73-pin (a), AW0

Black connector

73-pin connector -T73a-



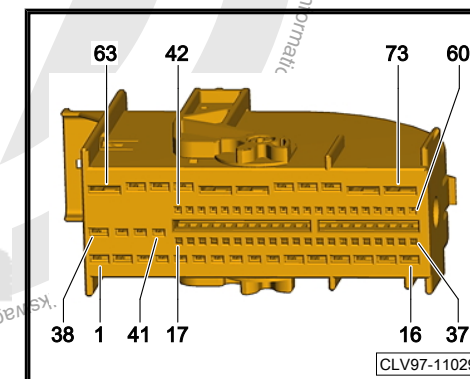
| Cavity | Function | Cavity | Function |
|--------|---|--------|--|
| 1 | ... | 38 | Z1 - Connection 1, in mirror adjustment/heating wiring harness |
| 2 | Left dipped beam output signal | 39 | Terminal 31 |
| 3 | ... | 40 | Rear right side light bulb output signal |
| 4 | Interior lighting output signal, door contact switch | 41 | Rear left side light bulb output signal |
| 5 | ... | 42 | Supply input signal (86s) for ignition/starter switch |
| 6 | Rear fog lamp output signal | 43 | Brake pedal position sender input signal |
| 7 | Fog light switch input signal | 44 | Supply input signal (15) for ignition/starter switch |
| 8 | ... | 45 | Side light switch input signal |
| 9 | ... | 46 | ... |
| 10 | Rear lid release motor output signal | 47 | ... |
| 11 | Central locking motor "lock" output signal for all doors | 48 | ... |
| 12 | Central locking motor output signal for driver's door | 49 | Headlight washer system relay output signal |
| 13 | Central locking motor "Safe" output signal for all doors | 50 | ... |
| 14 | Terminal 31 | 51 | ... |
| 15 | Central locking motor output signal for front passenger door and rear doors | 52 | Fuel supply relay output signal |
| 16 | Terminal 30 | 53 | Alarm horn relay -J641- |
| 17 | Rear left central locking lock unit -F222- | 54 | Supply input signal (75a) for ignition/starter switch |
| 18 | Rear right central locking lock unit -F223- | 55 | Starter inhibitor relay output signal (only models with automatic gearbox) |
| 19 | Driver door contact switch -F2- | 56 | Hazard warning lights button -E229- |
| 20 | Front passenger door contact switch -F3- | 57 | Interior monitoring "off" warning lamp output signal |
| 21 | Front passenger side central locking lock unit -F221- | 58 | Central locking SAFELOCK function warning lamp -K133- |

| Cavity | Function | Cavity | Function |
|--------|---|--------|---|
| 22 | Driver door central locking motor -V56- | 59 | Interior locking warning lamp output signal |
| 23 | Rear lid handle release button input signal | 60 | Heated rear window warning lamp output signal |
| 24 | Central locking input signal, driver door | 61 | ... |
| 25 | Interior locking button input signal | 62 | Main beam output signal |
| 26 | Door contact switch input signal for rear right door | 63 | ... |
| 27 | Hood contact switch -F266- | 64 | Supply input signal (30), heated exterior mirrors |
| 28 | Hazard warning lights button -E229- Front passenger side central locking lock unit -F221- ¹⁾ | 65 | Supply input signal (30), interior lights |
| 29 | Horn plate input signal | 66 | Supply input signal (30), interior lights |
| 30 | Rear lid lock position 2 input signal | 67 | ... |
| 31 | Rear lid lock position 1 input signal | 68 | Supply input signal (30), window wiper |
| 32 | Right turn signal switch input signal | 69 | Window wiper position 1 output signal |
| 33 | Left turn signal switch input signal | 70 | Terminal 31 |
| 34 | Rear left door contact switch -F10- | 71 | Window wiper position 2 output signal |
| 35 | ... | 72 | Horn output signal |
| 36 | Heated front seats control unit -J774- | 73 | Horn supply input signal (30) |
| 37 | ... | | |

1.14.5 73-pin (b), AW0

White connector

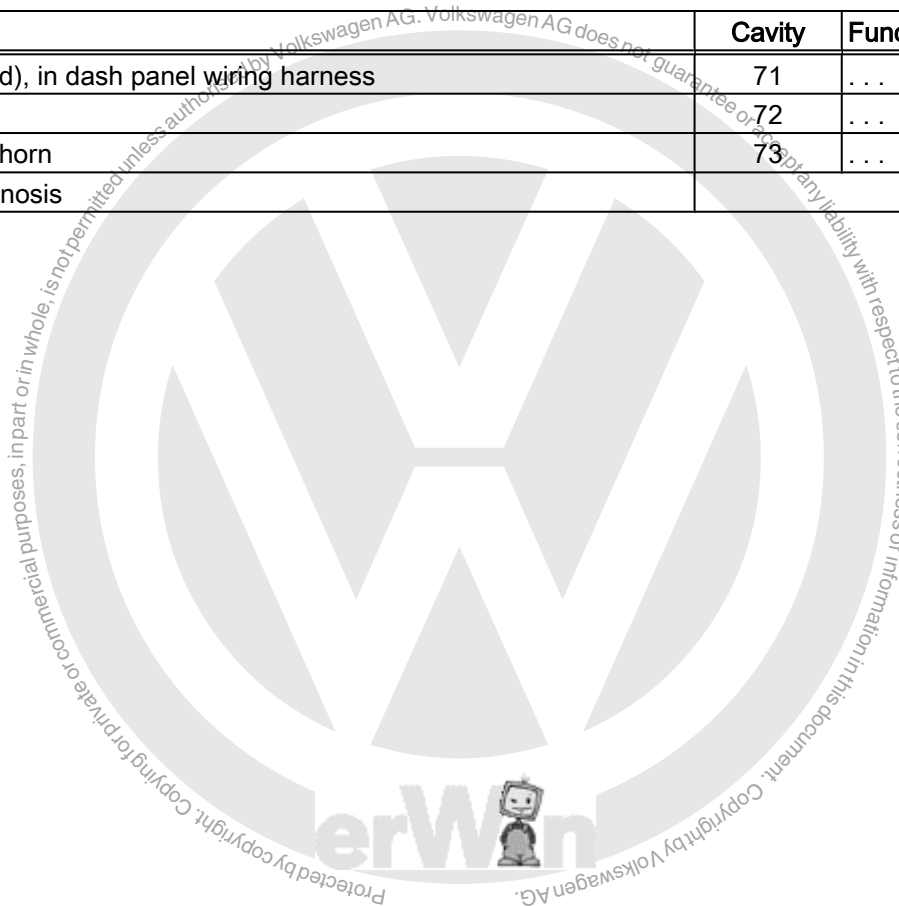
73-pin connector -T73b-



| Cavity | Function | Cavity | Function |
|--------|----------|--------|-------------|
| 1 | ... | 38 | Terminal 31 |

| Cavity | Function | Cavity | Function |
|--------|--|--------|---|
| 2 | Right dip beam output signal | 39 | Supply input signal (30) for electronics |
| 3 | ... | 40 | ... |
| 4 | ... | 41 | ... |
| 5 | ... | 42 | Brake contact switch input signal |
| 6 | ... | 43 | ... |
| 7 | ... | 44 | Cruise control system "Set" input signal |
| 8 | ... | 45 | Cruise control system "On/Off" input signal |
| 9 | Front left connection (fog light), in main wiring harness | 46 | Cruise control system "Reset" input signal |
| 10 | Front right connection (fog light), in main wiring harness | 47 | Cruise control system "Cancel" input signal |
| 11 | Terminal 30 (fog light) | 48 | Reversing light switch input signal |
| 12 | Reversing light output signal (only models with automatic gearbox) | 49 | Signal (L) alternator |
| 13 | Terminal 30 (turn signal, brake lamp) | 50 | Starter relay input signal |
| 14 | Connection (left turn signal), in headlight wiring harness | 51 | Supply input signal (75a) for ignition/starter switch |
| 15 | Connection 2 (right turn signal), in headlight wiring harness | 52 | Window washer pump supply input signal |
| 16 | Brake lights output signal | 53 | Window wiper position 2 input signal |
| 17 | LIN bus, door control unit and switches in steering wheel | 54 | ... |
| 18 | Connection 1 (powertrain CAN bus, low), in main wiring harness | 55 | Starter inhibitor signal (only models with automatic gearbox) |
| 19 | Connection 1 (powertrain CAN bus, high), in main wiring harness | 56 | ... |
| 20 | Connection 1 (convenience CAN bus, high), in main wiring harness | 57 | ... |
| 21 | Connection 1 (convenience CAN bus, low), in main wiring harness | 58 | Exterior mirror heater button -E231- |
| 22 | Diagnostic connection -U31 | 59 | Terminal 30 |
| 23 | Diagnostic connection -U31 | 60 | Terminal 31 |
| 24 | LIN bus, sliding sunroof adjustment control unit, rain and light detector sensor, interior monitoring sensor | 61 | Washer pump motor and rear window wiper motor output signal |
| 25 | ... | 62 | Windscreen wiper intermittent operation input signal |
| 26 | ... | 63 | Heated rear window output signal |
| 27 | Window wiper position 1 input signal | 64 | ... |
| 28 | Front passenger side central locking lock unit -F221- | 65 | ... |
| 29 | ... | 66 | ... |
| 30 | Interior monitoring deactivation switch input signal | 67 | Heated rear window supply input signal (30) |
| 31 | Heated rear window button input signal | 68 | Supply input signal (30), right headlight |
| 32 | Windscreen wiper motor -V- | 69 | ... |
| 33 | ... | 70 | ... |

| Cavity | Function | Cavity | Function |
|--------|--|--------|----------|
| 34 | Connection (58d), in dash panel wiring harness | 71 | ... |
| 35 | ... | 72 | ... |
| 36 | LIN bus, alarm horn | 73 | ... |
| 37 | Signal (K), diagnosis | | |

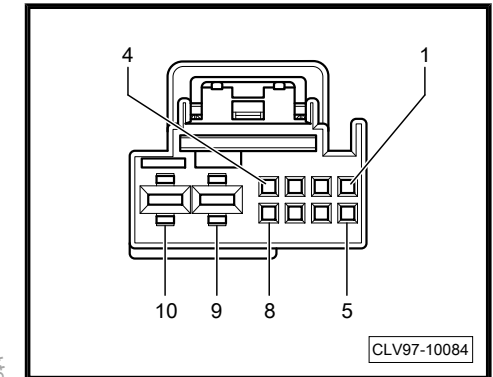


1 Conn. Views Sunroof

1.1 Power sunroof control module -J245-

Sunroof motor -V1-

10-pin connector -T10e-

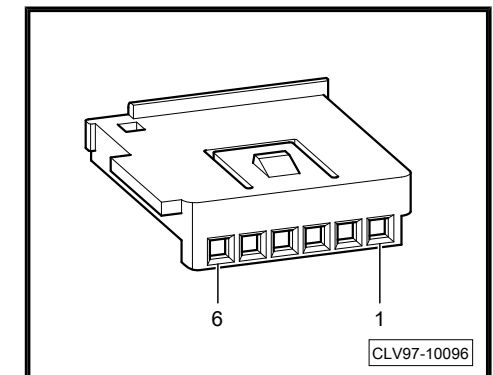


| Cavity | Function | Cavity | Function |
|--------|----------------------------------|--------|-------------------------|
| 1 | LIN | 6 | ... |
| 2 | 5 Volt, output | 7 | Signal Out, Tilt Button |
| 3 | Signal Out, Adjustment Regulator | 8 | ... |
| 4 | Ground, Module | 9 | Ground, battery |
| 5 | ... | 10 | Power, battery |

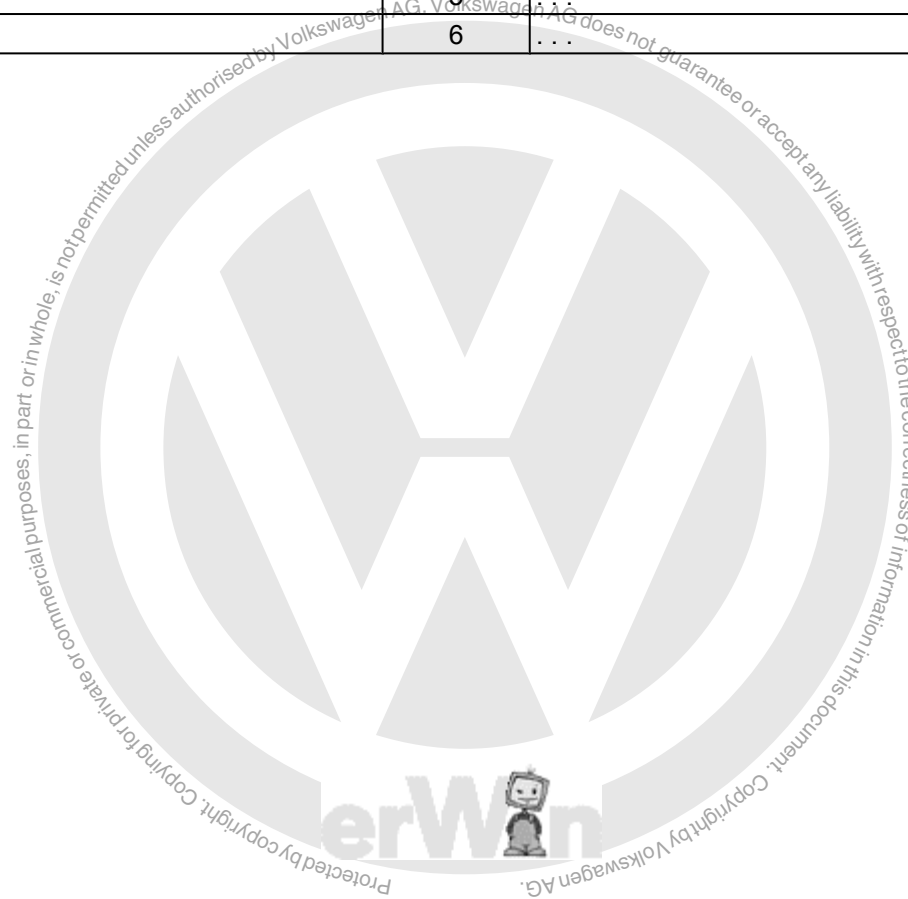
1.2 Sunroof adjustment regulator -E139-

Sunroof tilt button 1 -E582-

4-pin connector -T4ad-



| Cavity | Function | Cavity | Function |
|--------|------------------------------------|--------|---------------------------|
| 1 | 5 Volt | 4 | Signal Input, Tilt Button |
| 2 | Ground | 5 | ... |
| 3 | Signal Input, Adjustment Regulator | 6 | ... |



1 Conn. Views Steering

1.1 Power steering control module -J500-

Steering angle sensor -G85-

Steering torque sensor -G269-

Electromechanical power steering motor -V187-

◆ ⇒ ["1.1.1 2-pin ", page 1](#)

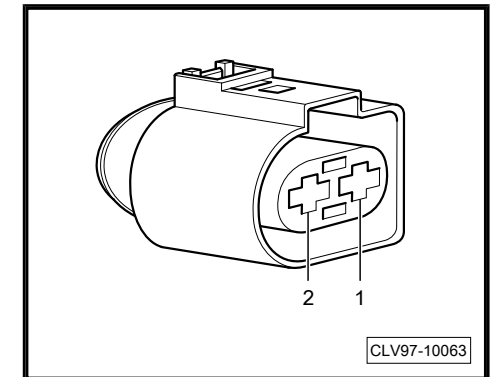
◆ ⇒ ["1.1.2 3-pin ", page 2](#)

◆ ⇒ ["1.1.3 5-pin \(ag\)", page 2](#)

◆ ⇒ ["1.1.4 5-pin \(al\)", page 3](#)

1.1.1 2-pin

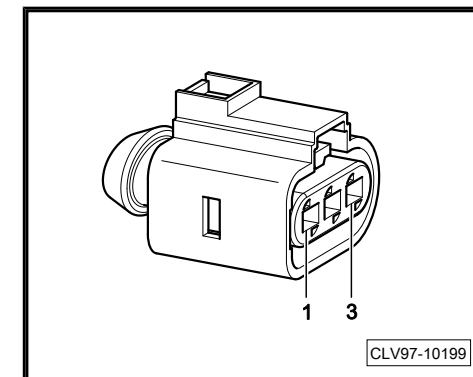
Double connector -T2a-



| Cavity | Function |
|--------|---------------|
| 1 | Ground, motor |
| 2 | Power, motor |

1.1.2 3-pin

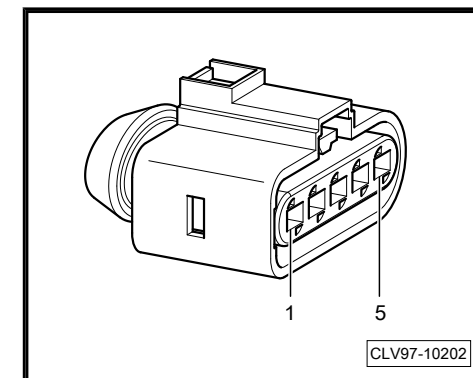
3-pin connector -T3-



| Cavity | Function |
|--------|------------|
| 1 | CAN Low |
| 2 | CAN High |
| 3 | Power (15) |

1.1.3 5-pin (ag)

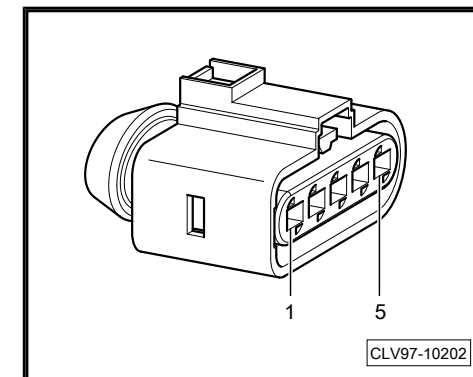
5-pin connector -T5g-



| Cavity | Function | Cavity | Function |
|--------|------------------------------------|--------|------------------------------------|
| 1 | Part of assembly, internal circuit | 4 | Part of assembly, internal circuit |
| 2 | Part of assembly, internal circuit | 5 | Part of assembly, internal circuit |
| 3 | Part of assembly, internal circuit | | |

1.1.4 5-pin (al)

5-pin connector -T5al-



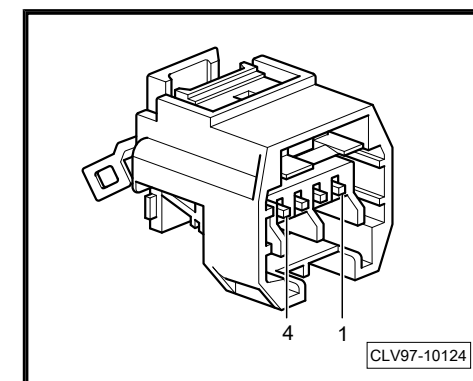
| Cavity | Function | Cavity | Function |
|--------|------------------------------------|--------|------------------------------------|
| 1 | Part of assembly, internal circuit | 4 | Part of assembly, internal circuit |
| 2 | Part of assembly, internal circuit | 5 | Part of assembly, internal circuit |
| 3 | Part of assembly, internal circuit | | |

1.2 Steering column electronics control module -J527-

- ◆ ⇒ ["1.2.1 4-pin", page 3](#)
- ◆ ⇒ ["1.2.2 12-pin ", page 4](#)
- ◆ ⇒ ["1.2.3 16-pin ", page 4](#)

1.2.1 4-pin

4-pin connector -T4k-

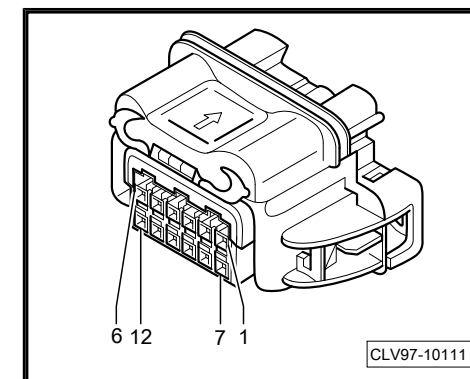


| Cavity | Function | Cavity | Function |
|--------|------------|--------|----------|
| 1 | Airbag (+) | 3 | ... |

| Cavity | Function | Cavity | Function |
|--------|------------|--------|----------|
| 2 | Airbag (-) | 4 | ... |

1.2.2 12-pin

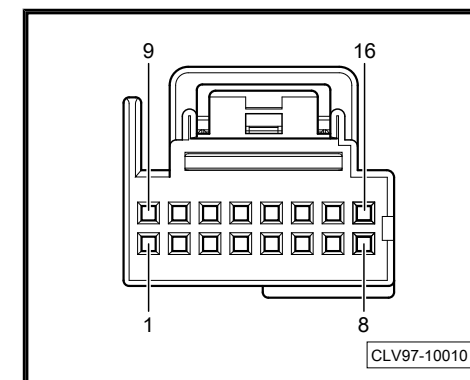
12-pin connector -T12k-



| Cavity | Function | Cavity | Function |
|--------|------------|--------|--------------|
| 1 | ... | 7 | Ground, horn |
| 2 | ... | 8 | Signal, horn |
| 3 | Airbag (+) | 9 | LIN, network |
| 4 | Airbag (-) | 10 | Power (15) |
| 5 | ... | 11 | ... |
| 6 | ... | 12 | ... |

1.2.3 16-pin

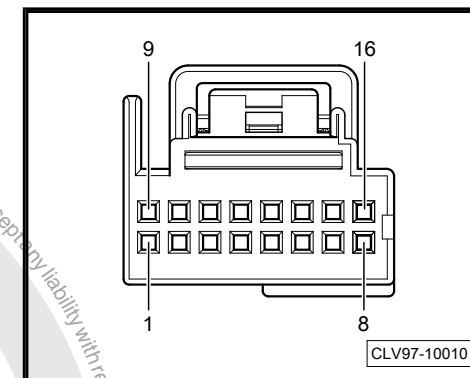
16-pin connector -T16I-



| Cavity | Function | Cavity | Function |
|--------|----------------------------------|--------|--------------------------------|
| 1 | Power, module | 9 | ... |
| 2 | Ground, module | 10 | ... |
| 3 | Comfort CAN Low | 11 | Tiptronic switch (if equipped) |
| 4 | Comfort CAN High | 12 | Powertrain CAN Low |
| 5 | ECM, input | 13 | Powertrain CAN High |
| 6 | Power, 50 Starter, (if equipped) | 14 | Power 15 (if equipped) |
| 7 | Remote start, (if equipped) | 15 | ... |
| 8 | ... | 16 | ... |

1.3 Electronic steering column lock control module -J764-

16-pin connector -T16v-



| Cavity | Function | Cavity | Function |
|--------|----------------------------|--------|----------------------------|
| 1 | ... | 9 | ... |
| 2 | Power, module | 10 | Ground |
| 3 | Power (50) | 11 | ... |
| 4 | Start system button, input | 12 | Power (50) |
| 5 | ... | 13 | Start system button, input |
| 6 | Power (15) | 14 | Tiptronic switch |
| 7 | Input, module | 15 | CAN Low |
| 8 | Power (15) | 16 | CAN High |

Cautions & Warnings

Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the Volkswagen Factory Approved Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

Cautions & Warnings

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS) disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.

Cautions & Warnings

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the Volkswagen Factory Approved Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

I have read and I understand these Cautions and Warnings.